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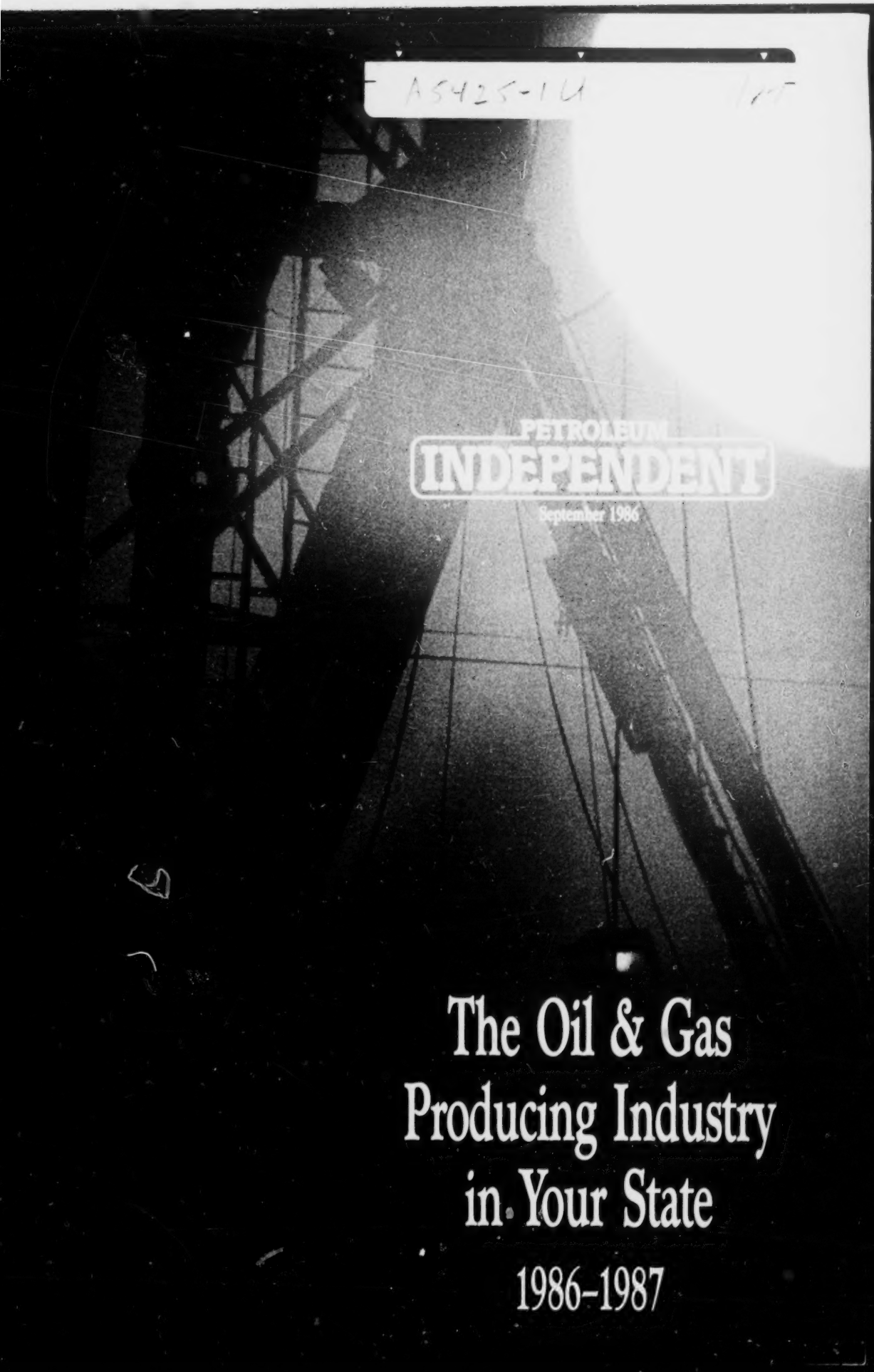

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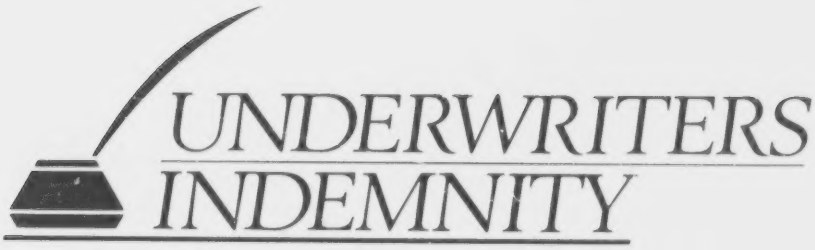
September 1986

The Oil & Gas Producing Industry in Your State

1986-1987



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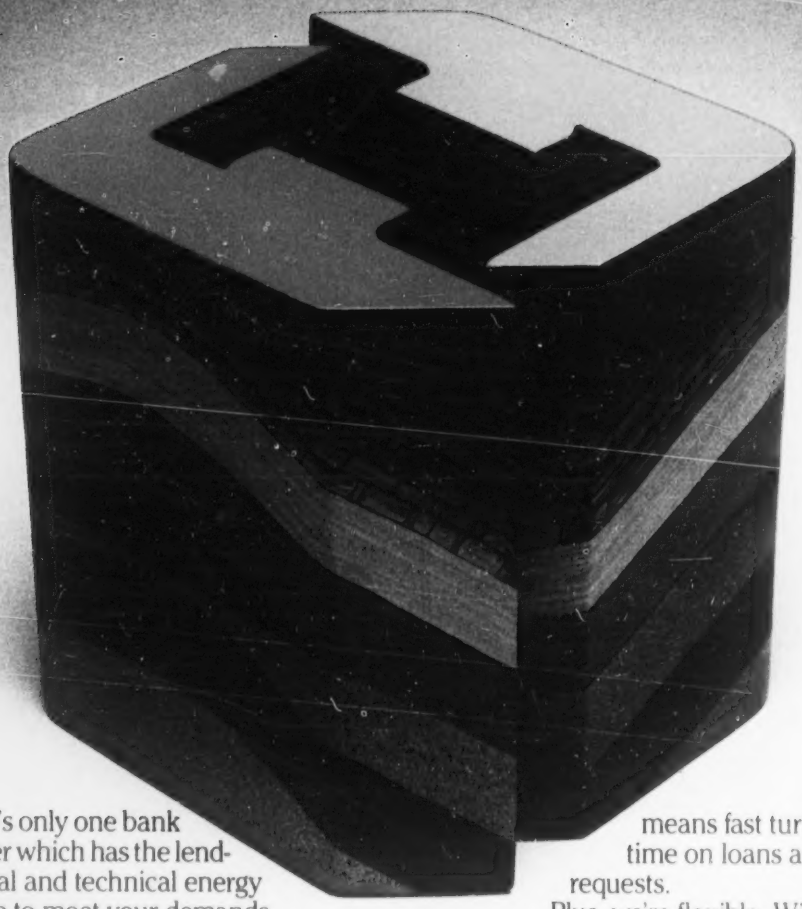

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In Memoriam

Melvin L. Mesnard
(1919–1986)

Editor, *The Oil Producing Industry In Your State*,
1950–1983

The Year in Review

Looking back, the domestic petroleum industry began to fall into a severe downturn in 1982 as crude oil prices at the wellhead dropped significantly. After conditions worsened the following year, it appeared that 1984 might bring something of a turnaround. In fact, last year's issue of *The Oil & Gas Producing Industry In Your State* highlighted the reversal in declining rotary rig activity, natural gas production and wellhead revenues. Unfortunately, the improved statistics reflected merely a brief respite before petroleum economics went from bad to worse.

Because the scope of this publication is limited to annual information, the most currently available 1985 statistics do not mirror the 1986 collapse of nearly every industry barometer. It will be next year's issue before the devastating effects of a 50 percent drop in crude oil prices will register in all the data series. However, it is still apparent from the 1985 data that U.S. petroleum companies were struggling to cope with serious economic and political problems even before Saudi Arabia abandoned its role as the swing producer of OPEC, thereby flooding the world oil market.

This is the 47th year that this book has analyzed the individual petroleum producing states. Crude oil and natural gas, as the 1st and 2nd most valuable minerals in America, respectively, contribute greatly to the economy of each producing state. In the pages to follow, it is evident that in half of the states, either crude oil or natural gas ranks as the most valuable mineral produced. Moreover, petroleum accounted for 74 percent of America's total revenues from all mineral output in 1984.

As depicted graphically, crude oil wellhead revenues had increased in 1984 by $1.1 billion after falling for 2 years. The turnaround was short-lived, however, with the 1985 total dropping back to $78.9 billion. Although crude oil production grew by almost 25 million barrels during the year, it was overshadowed by a $1.80 per barrel fall in average wellhead price.

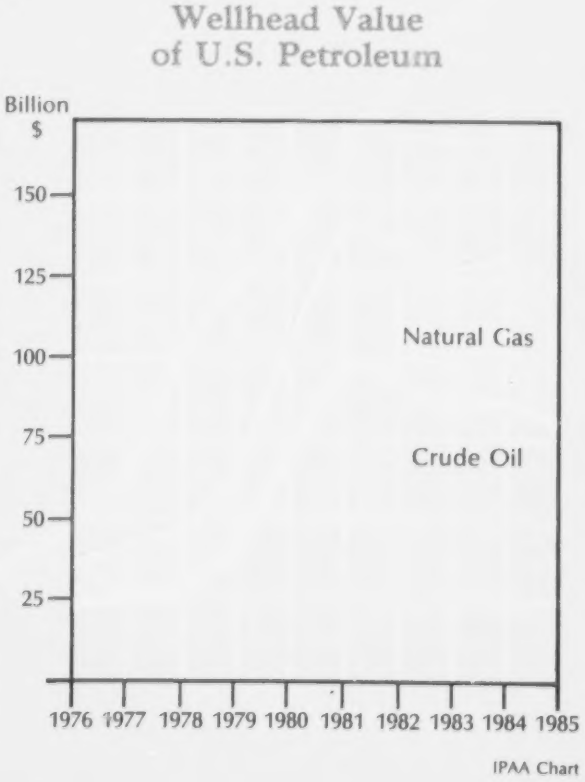
Revenues from natural gas sales also were down in 1985 as a result of a year-to-year decline of roughly 1 trillion cubic feet (Tcf) in marketed production to an annual average of 17.22 Tcf. This loss, combined with price erosion to a level of $2.48 per Mcf, caused 1985 revenues to diminish to $42.7 billion. Total oil and gas wellhead receipts amounted to $121.6 billion last year, down $17.4 billion from their 1981 peak.

Other than wellhead revenues, there are many other indicators of the health of the U.S. petroleum industry. One of the most common signs of future exploration activity is the seismic crew count. Since 1981, the number of seismic crews scouting for potential drilling sites has declined continuously. The 1985 total of 3,494 crews is down nearly 41 percent in just 4 years. Although the U.S. total fell, there were still 7 states that witnessed an annual gain in the number of crews working. On a percentage basis, the most significant increases occurred in Pennsylvania, Virginia, Florida, Michigan and Arkansas.

The amount of acreage under lease serves as another guide to upcoming exploratory trends. For the first time in a decade, there has been a curtailment in total acreage leased for petroleum activities. As shown on the accompanying pie chart, the 1985 total of 566.9 million acres represents 25 percent of all U.S. land acreage. Of the amount under lease, 78.7 million acres have been found to be productive of crude oil and/or natural gas.

Although it tracks only the rotary drilling rigs in operation and not other types of equipment, the Hughes rig count is one of the most widely followed industry barometers. After climbing to 3,970 active rigs in 1981, the U.S. rig count declined for the next 2 years. The year 1984 brought an increase to 2,428 rigs but it was not sustained. The 1985 total dropped to 1,980 which is less than half the number of rotary rigs operating during the peak year of 1981. There were only 4 states where the number of active rotary rigs increased last year, namely Alabama, Alaska, Florida and Virginia.

In last year's issue, all the well completion statistics were revised according to the new system used by the American Petroleum Institute (API). Instead of publishing data when reported by operators, API has begun to estimate the number of wells completed each year in order to correct statistical lags due to reporting delays. Consequently, the drilling data will be subject



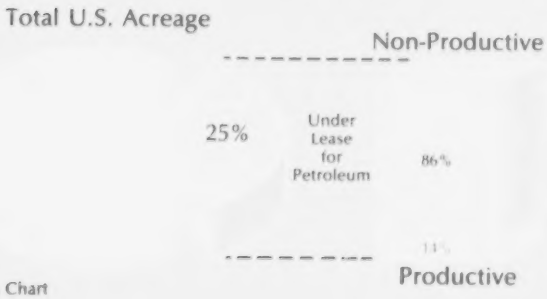
to revision for 5 years as estimates are corrected in accordance with the latest reported well completions.

The year 1981 remains the peak for total wells drilled, including exploratory, development and dry holes. At press time, the 1985 total was estimated at 66,835 wells drilled, or 27 percent below the high 4 years earlier.

The adjacent table shows the 8 top petroleum producing states and their annual percent changes in total wells drilled, seismic crews working and rotary rigs operating. The year-to-year declines have been dramatic with only 2 exceptions—the number of seismic crews increased in New Mexico and the rotary rig count jumped in Alaska.

New-field wildcat drilling has plummeted 41 percent since the 1981 apex. In 1985, there were an estimated 5,428 wells drilled in unproven areas where there has been no previous oil and/or gas production. Even though the U.S. total declined, there were still several states in which the number of wildcats increased, most notably, Kansas, New Mexico and Alabama.

Acreage Under Lease



IPAA Chart

Despite the drop in petroleum prices, drilling cost figures indicate that there has been no better time to drill in recent years. In 1984, the cost of drilling and equipping an average well dropped 12 percent from the prior year to $326,463. This translates to $71.90 per foot drilled and includes both oil and gas wells in addition to the cost of dry holes. Moreover, it is estimated that the 1985 data will show a further 5 percent decline in drilling costs.

U.S. crude oil production continued to climb in 1985 for the 4th straight year to 8.97 million barrels per day. The largest crude oil producing states, the same as last year, were Texas, Alaska, Louisiana, California and Oklahoma. Maintaining its long-term growth path, the number of wells producing crude oil increased to 646,735 by year end.

The amount of crude oil coming from stripper wells rose for the 6th consecutive year to 463 million barrels in 1984. There were 452,543 productive stripper wells while 14,170 were abandoned. On a national level, 14 percent of all crude oil produced in 1984 could be attributed to stripper wells.

Top Petroleum Producing States
% Changes 1984–1985

	SEISMIC CREWS WORKING	TOTAL WELLS DRILLED	ROTARY RIGS OPERATING
Texas	−20%	−14%	−22%
Alaska	+43%	−88%	−39%
Louisiana	−9%	−22%	−36%
California	−24%	−14%	−2%
Oklahoma	−21%	−25%	−13%
Wyoming	−19%	−18%	−47%
New Mexico	−9%	+3%	−45%
Kansas	−28%	−19%	−40%
TOTAL U.S.	**−19%**	**−21%**	**−25%**

Sources: Society of Exploration Geophysicists
American Petroleum Institute
Hughes Tool Company

IPAA Chart

The number of producing natural gas wells also grew, with 238,342 in operation by the end of 1984. Most natural gas production took place in Texas, Louisiana, Oklahoma, New Mexico and Kansas.

The amount of severance and production taxes paid by the U.S. petroleum industry fell for the 3rd straight year in 1985 to $6.5 billion. Up until its peak in 1982 of $7.1 billion, these state and local tax revenues had increased continuously since IPAA began surveying the data 20 years ago.

Employment in the oil and gas extraction sector of the U.S. petroleum industry dropped in 1985 by 27,500 to average 585,200 employed during the year. The refining industry also had job losses amounting to 10,900 compared to 1984. Despite these reductions, employment in all phases of the U.S. petroleum industry rose by 22,500 to a total of 1.8 million people. The increase was due largely to gains in transportation and retail service stations.

Next year's edition of *The Oil & Gas Producing Industry In Your State* will portray a different economic climate as the 1986 statistics are compiled. Questions about this publication are welcome and every effort will be made by IPAA's Statistics Department to see that the answers are provided.

—Deborah Rowell
Editor/Director of Statistics

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ENVIRONMENT AND SAFETY — studies and reports on safety, health and environmental problems, the activities of OSHA, the EPA, and recommends Association policy action.

NATURAL GAS — studies problems of natural gas production and recommends policies and courses of action.

PUBLIC LANDS — studies and comments on legislation and regulations affecting exploration for and the development of oil and natural gas on government owned lands.

TAX — studies and recommends policies and actions on federal tax issues pertaining to oil and gas production.

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COST STUDY — analyzes cost of finding, developing and producing oil and gas.

OIL RECOVERY — studies and reports on the results of primary, secondary, and enhanced oil recovery techniques applied in the production of crude oil.

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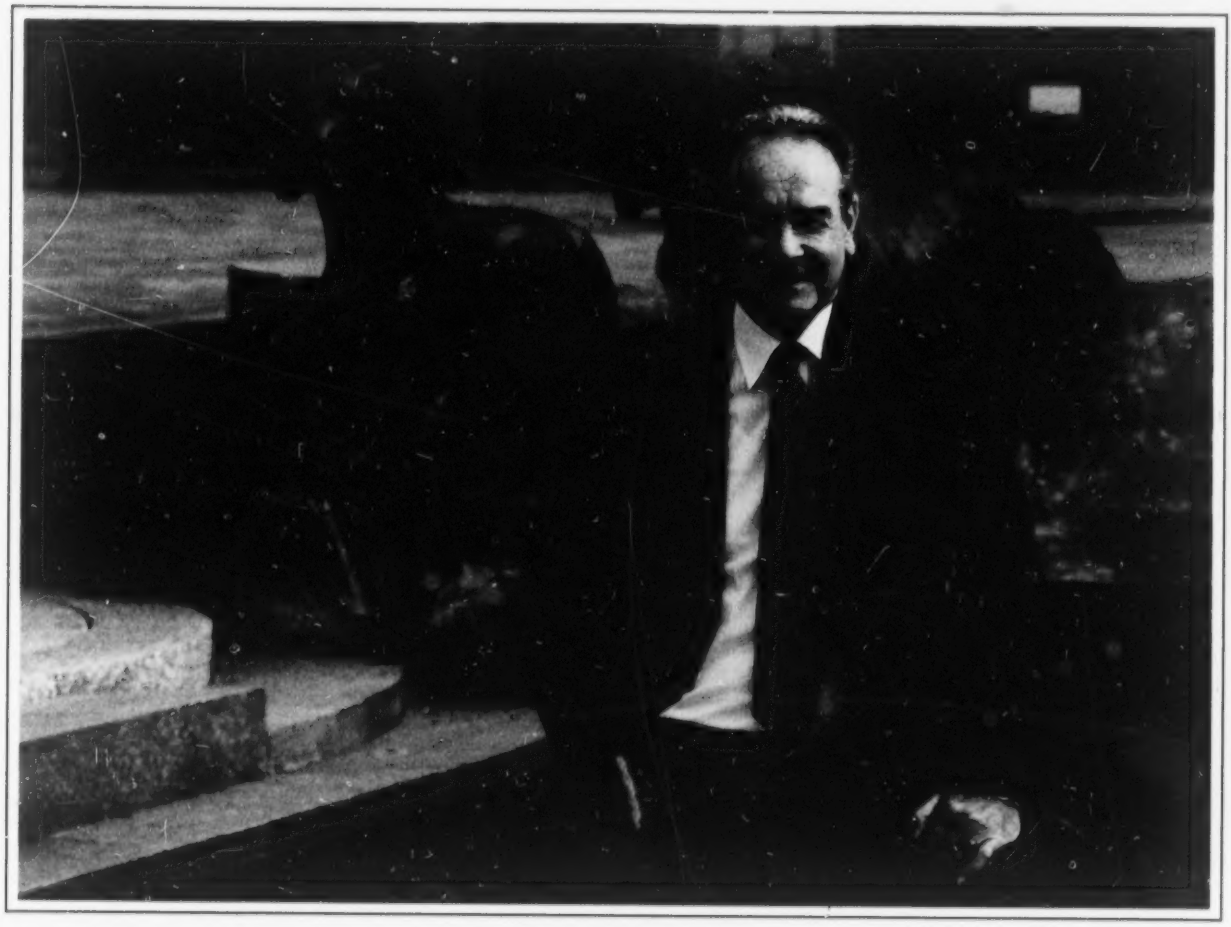

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Data Sources

The format of the following state pages was changed in the 1984 edition. So that readers may compare current to historical data, the listing below indicates the category item number (shown in parentheses) used in issues prior to 1984. The editor gratefully acknowledges the following sources of information:

(1, 3)	Number of counties and land areas	*The World Almanac and Department of Interior*
(2, 4-6)	Acreage under lease	Petroleum Information Corp. and IPAA surveys
(15, 18-19)	First and peak production years	*AIME Statistical Yearbook, World Oil, Oil & Gas Journal and World Petroleum Report*
(28-29)	Deepest wells drilled	*World Oil*
(31)	Cumulative wells drilled	*Oil & Gas Journal, World Petroleum Statistical Yearbook,* International Oil Scouts Association, Petroleum Information Corp. and API
(26)	Cumulative production and reserves	API, American Gas Association and EIA
(8-10)	Prices and wellhead value	EIA
(7)	Cumulative wellhead value	IPAA
(12-13)	Rank among principal minerals	IPAA based on data from Department of Interior and EIA
(14)	Taxes paid and number of employees	IPAA survey
(17)	Seismic crews working	Society of Exploration Geophysicists
(27)	Rotary drilling rigs	Hughes Tool Company
(30)	Wells and footage drilled	API
(21, 23)	Producing wells	*World Oil*
(24-25)	Production and reserve position	EIA
(new)	Drilling costs	Joint Association Survey
(20)	Stripper wells	Interstate Oil Compact Commission and National Stripper Well Association

Energy Conversions

One barrel of crude oil
- = 42 gallons
- = 5,800,000 BTU's of energy
- = 5,614 cubic feet of natural gas
- = 0.22 ton of bituminous coal

One cubic foot of natural gas
- = 7.48 gallons
- = 1,032 BTU's of energy
- = 0.000178 barrel of oil
- = 0.000040 ton of bituminous coal

One short ton of bituminous coal
- = 2,000 pounds
- = 26,200,000 BTU's of energy
- = 4.52 barrels of crude oil
- = 25,314 cubic feet of natural gas

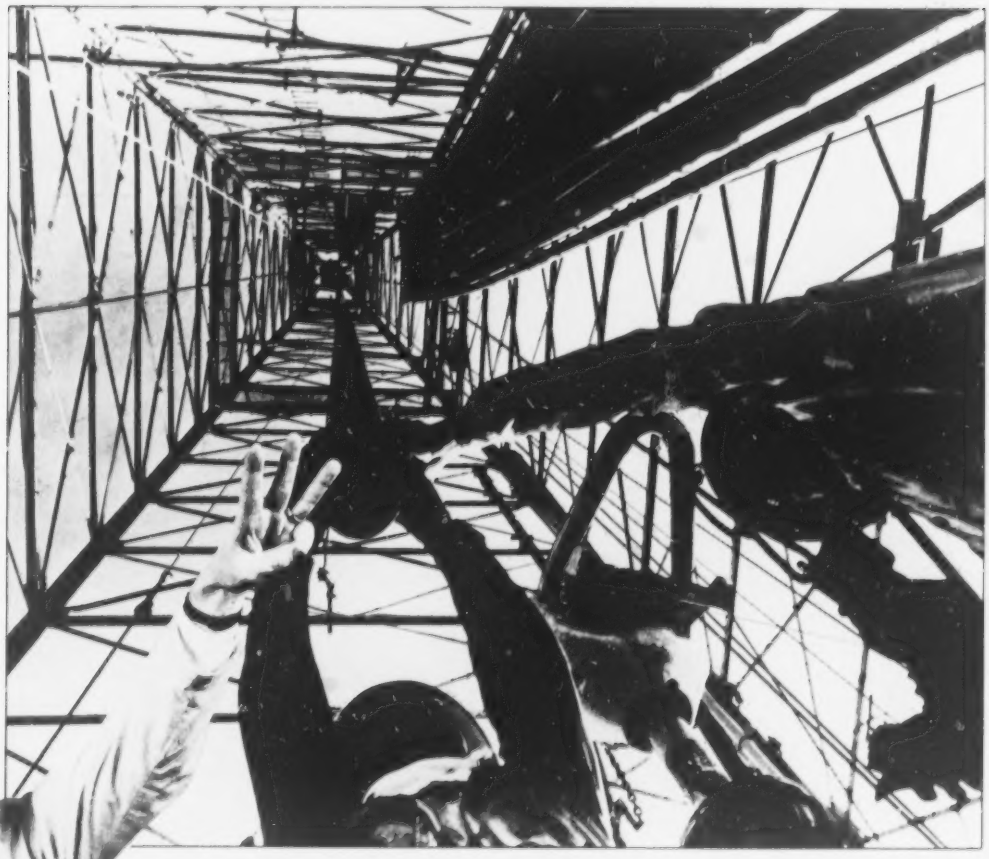
One metric ton of crude oil
- = 2,204 pounds
- = 7.46 barrels of domestic crude oil
- = 6.99 barrels of foreign crude oil

One cubic meter of natural gas
- = 35.314 cubic feet

Abbreviations

bbl.	=	barrel
b/d	=	barrels per day
Mcf	=	thousand cubic feet
MMcf	=	million cubic feet
Bcf	=	billion cubic feet
Tcf	=	trillion cubic feet
thous.	=	thousand
mill.	=	million
ft.	=	foot
gal.	=	gallon
mfg.	=	manufacturing
BTU	=	British Thermal Unit
NGL	=	Natural Gas Liquids
LPG	=	Liquefied Petroleum Gases
EIA	=	Energy Information Administration
API	=	American Petroleum Institute

The Structure of the Oil Industry Has Changed.



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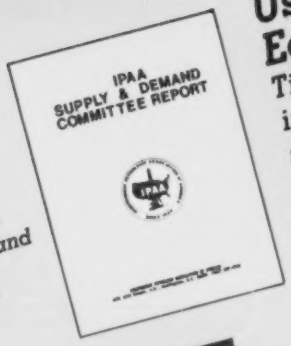

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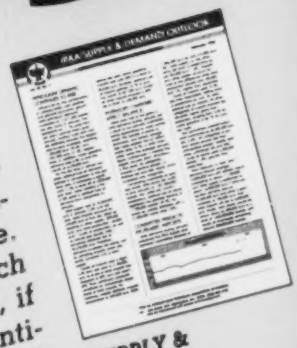

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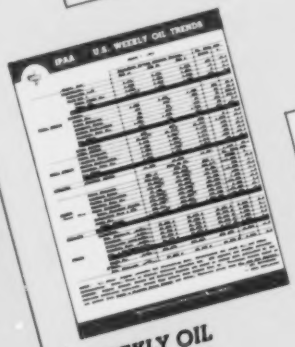

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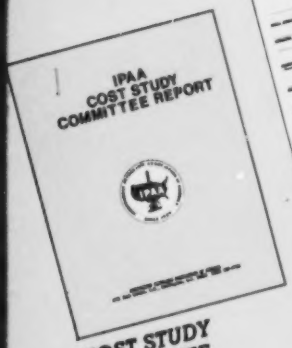

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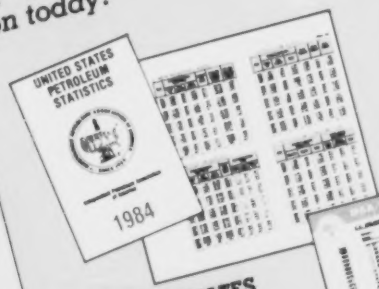

UNITED STATES PETROLEUM STATISTICS
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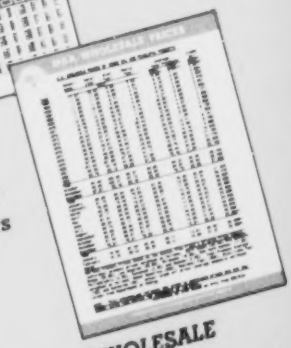

WHOLESALE PRICES
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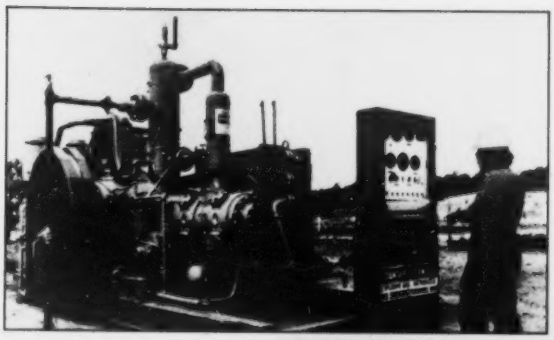

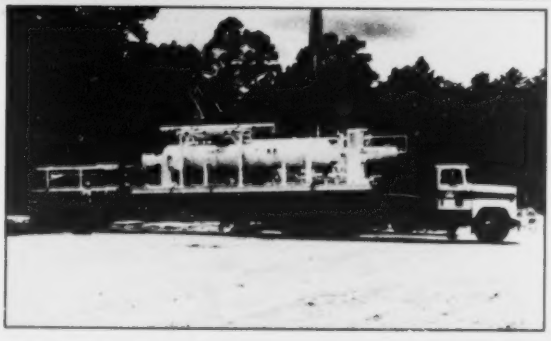

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A Halliburton Company

1525 Elm Street, Suite 2900,
P.O. Box 1411, Dallas, Texas 75221,
214/954-6100

☐ States with oil and/or gas production

Background Information

Number of states	50
With oil and/or gas production	33
Land area *(thous. acres)*	2,265,145
Total acreage under lease	566,930
Productive of oil and/or gas	78,728
Non-productive of oil and/or gas	488,202
Percentage of total land area leased	25%
Percentage of leased acreage productive of oil and/or gas	14%
First year of production:	
Crude oil	1859
Natural gas	1881
Year and amount of peak production:	
Crude oil--3,517,450 *thous. bbls.*	1970
Natural gas—22,647,549 *MMcf*	1973

Deepest well drilled: *(ft.)*	
Crude oil	18,060
Natural gas	26,536
Dry hole	31,441

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	1,695,648	57%
Gas wells	356,737	12%
Dry holes	909,317	31%
Total	2,961,702	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	168,040	30,520	198,560	874,984
Production	139,594	22,877	162,471	669,000

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$24.08
Natural gas *($/Mcf)*	$2.48
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$78,851,236
Natural gas	$42,700,186
Total	$121,551,422
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$919,619,806

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	47%
Natural gas—ranked 2nd	27%
State and local severance and production taxes paid in 1985 *(thous. $)*	$6,452,855
Number of employees during 1985 in:	
Oil and gas extraction industry	578,096
Total petroleum industry	1,713,154

1985 Industry Statistics

Seismic crew months worked 3,494

Rotary drilling rigs active 1,980

Number of wells drilled:

	Exploratory	Development	Total
Oil	1,728	32,073	33,801
Gas	1,188	10,559	11,747
Dry	8,784	11,008	19,792
Service	—	1,495	1,495
Total	11,700	55,135	66,835

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	10,037.4	125,446.1	135,483.5
Gas	7,938.8	57,430.9	65,369.7
Dry	48,663.0	50,444.3	99,107.3
Service	—	4,766.6	4,766.6
Total	66,639.2	238,087.9	304,727.1

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 5,428

New-field wildcat footage *(thous. ft)* 35,531.3

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	—	—
Production	—	—
Reserves (1984)	—	—

Number of producing wells: *(12/31/85)*

Crude oil 646,735

Natural gas 238,342

Total 885,077

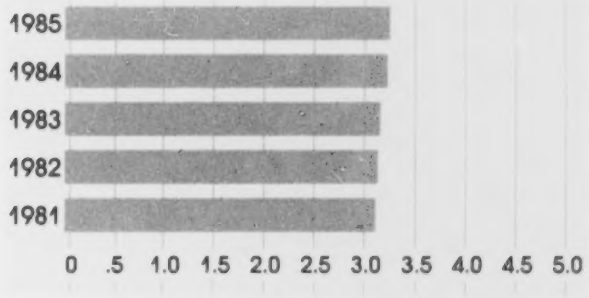
Percentage of producing oil wells on artificial lift 94%

Average production:	thous. bbls.	thous. b/d
Crude oil	3,274,553	8,971
NGL	587,285	1,609
Total	3,861,838	10,580

Natural gas marketed production *(MMcf)* 17,217,817

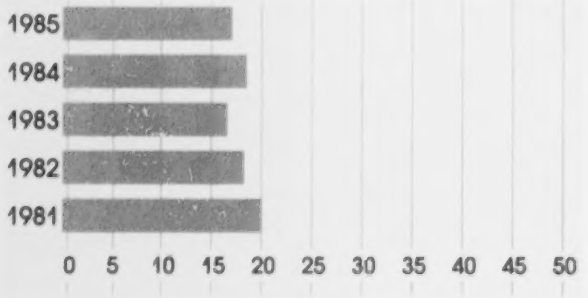
Crude Oil Production

(bill. bbls.)



Gas Production

(Tcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	3,748	518	4,266
Production	3,037	776	3,813
Net annual change	711	–258	453
Proved reserves	28,446	7,643	36,089

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	2,462	12,508	14,970
Production	3,518	14,514	18,032
Net annual change	–1,056	–2,006	–3,062
Proved reserves	60,638	145,346	205,984

Total estimated drilling costs $25,206,219,306

Cost per well $326,463

Cost per foot $71.90

Number of producing stripper wells *(12/31/84)* 452,543

Number of stripper well abandonments 14,170

Stripper well production *(thous. bbls.)* 463,459

Percentage of oil produced by stripper wells 14%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary 2,493,805

Secondary 2,026,824

Total 4,520,629

State Energy Contact

Energy Information Administration
Forrestal Building, Room IF-048
1000 Independence Avenue, S.W.
Washington, D.C. 20585
Ph. 202-252-8800

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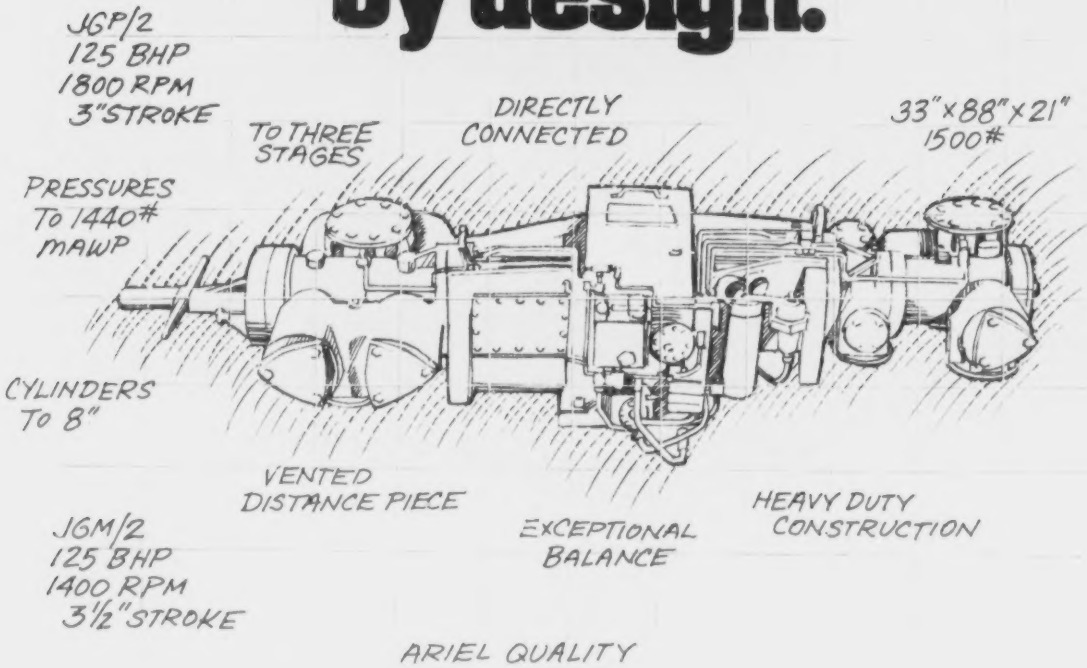

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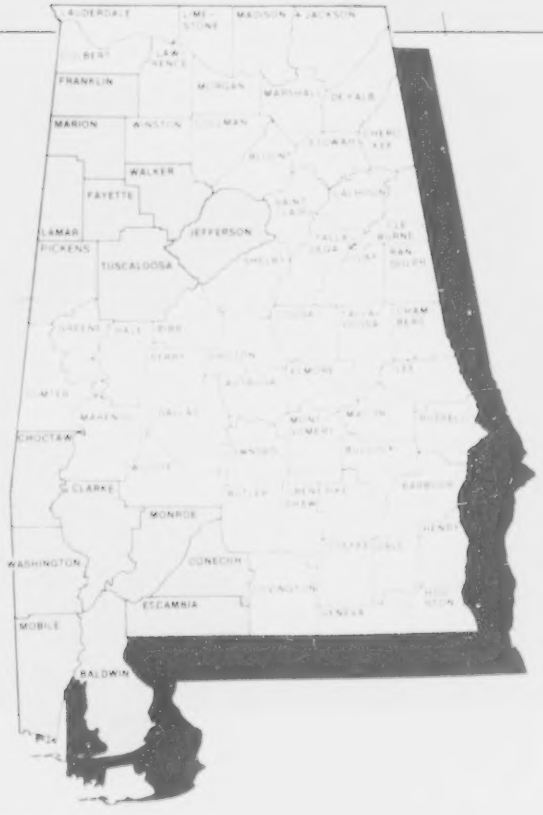


☐ Counties with oil and/or gas production

Background Information

Number of counties	67
With oil and/or gas production	16
Land area *(thous. acres)*	32,491
Total acreage under lease	8,010
Productive of oil and/or gas	371
Non-productive of oil and/or gas	7,639
Percentage of total land area leased	25%
Percentage of leased acreage productive of oil and/or gas	5%
First year of production:	
Crude oil	1944
Natural gas	1904
Year and amount of peak production:	
Crude oil—22,153 *thous. bbls.*	1980
Natural gas—106,648 *MMcf*	1985

Deepest well drilled: *(ft.)*	
Crude oil	18,750
Natural gas	21,650
Dry hole	21,859

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	924	22%
Gas wells	757	18%
Dry holes	2,497	60%
Total	4,178	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	319	323	642	1,673
Production	251	123	374	649

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$25.96
Natural gas *($/Mcf)*	$2.72
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$560,243
Natural gas	$290,083
Total	$850,326
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$4,939,763

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 2nd	23%
Natural gas—ranked 3rd	15%
State and local severance and production taxes paid in 1985 *(thous. $)*	$84,215
Number of employees during 1985 in:	
Oil and gas extraction industry	1,840
Total petroleum industry	17,942

1985 Industry Statistics

Seismic crew months worked 78

Rotary rigs operating 22

Number of wells drilled:

	Exploratory	Development	Total
Oil	9	51	60
Gas	24	79	103
Dry	106	74	180
Service	—	0	0
Total	139	204	343

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	92.8	288.6	381.5
Gas	176.1	288.3	464.4
Dry	676.4	350.0	1,026.4
Service	—	0	0
Total	945.4	926.9	1,872.3

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 139

New-field wildcat footage *(thous. ft)* 945.4

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	23rd	14th
Production	16th	16th
Reserves (1984)	20th	17th

Number of producing wells: *(12/31/85)*

Crude oil 810

Natural gas 822

Total 1,632

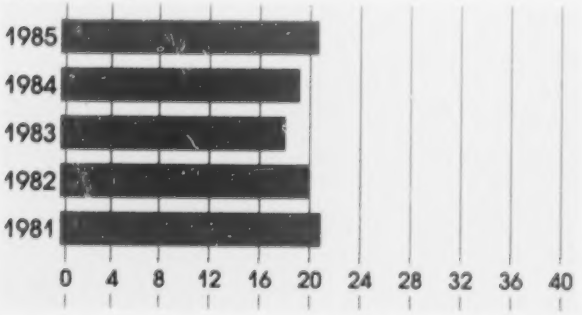
Percentage of producing oil wells on artificial lift 89%

Average production:	thous. bbls.	thous. b/d
Crude oil	21,581	59
NGL	12,000	33
Total	33,581	92

Natural gas marketed production *(MMcf)* 106,648

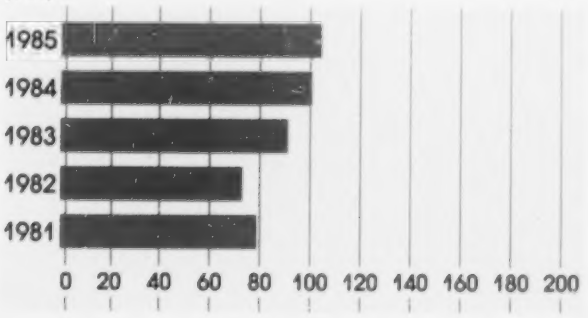
Crude Oil Production

(mill. bbls.)



Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	27	0	27
Production	10	16	26
Net annual change	17	–16	1
Proved reserves	68	200	268

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	14	243	257
Production	5	81	86
Net annual change	9	162	171
Proved reserves	40	984	1,024

Total estimated drilling costs $173,635,816

Cost per well $480,986

Cost per foot $94.77

Number of producing stripper wells *(12/31/84)* 98

Number of stripper well abandonments 3

Stripper well production *(thous. bbls.)* 172

Percentage of oil produced by stripper wells 2%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary 440

Secondary 20

Total 460

State Energy Contact

Alabama State Oil and Gas Board
P.O. Drawer O
University, AL 35486
Ph. 205-349-2852

ALASKA

Background Information

Number of counties	Not Applicable
With oil and/or gas production	Not Applicable
Land area *(thous. acres)*	365,333
Total acreage under lease	12,582
Productive of oil and/or gas	682
Non-productive of oil and/or gas	11,900
Percentage of total land area leased	3%
Percentage of leased acreage productive of oil and/or gas	5%
First year of production:	
Crude oil	1905
Natural gas	1945
Year and amount of peak production:	
Crude oil—666,233 *thous. bbls.*	1985
Natural gas—323,781 *MMcf*	1985

Deepest well drilled: *(ft.)*	
Crude oil	14,952
Natural gas	16,073
Dry hole	20,335

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	1,383	70%
Gas wells	115	6%
Dry holes	468	24%
Total	1,966	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	12,551	27	12,578	37,702
Production	4,988	8	4,996	3,226

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$17.15
Natural gas *($/Mcf)*	$1.71
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$11,425,896
Natural gas	$553,666
Total	$11,979,562
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$70,765,263

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	97%
Natural gas—ranked 2nd	2%
State and local severance and production taxes paid in 1985 *(thous. $)*	$1,358,344
Number of employees during 1985 in:	
Oil and gas extraction industry	8,810
Total petroleum industry	11,946

1985 Industry Statistics

Seismic crew months worked 48

Rotary drilling rigs active 20

Number of wells drilled:

	Exploratory	Development	Total
Oil	0	20	20
Gas	0	0	0
Dry	0	0	0
Service	—	1	1
Total	0	21	21

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	0	159.1	159.1
Gas	0	0	0
Dry	0	0	0
Service	—	11.0	11.0
Total	0	170.1	170.1

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 0

New-field wildcat footage *(thous. ft)* 0

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	25th	—
Production	2nd	8th
Reserves (1984)	1st	3rd

Number of producing wells: *(12/31/85)*

Crude oil	977
Natural gas	81
Total	1,058

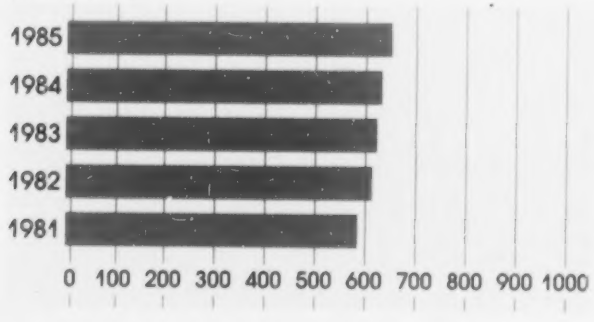
Percentage of producing oil wells on artificial lift 51%

Average production:	thous. bbls.	thous. b/d
Crude oil	666,233	1,825
NGL	0	0
Total	666,233	1,825

Natural gas marketed production *(MMcf)* 323,781

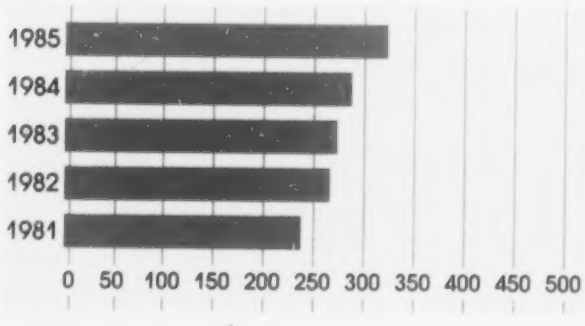
Crude Oil Production

(mill. bbls.)



Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	894	11	905
Production	638	0	638
Net annual change	256	11	267
Proved reserves	7,563	19	7,582

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	83	426	509
Production	135	189	324
Net annual change	−52	237	185
Proved reserves	30,356	4,120	34,476

Total estimated drilling costs $459,418,032

Cost per well $2,835,914

Cost per foot $325.18

Number of producing stripper wells *(12/31/84)* 0

Number of stripper well abandonments 0

Stripper well production *(thous. bbls.)* 0

Percentage of oil produced by stripper wells .....

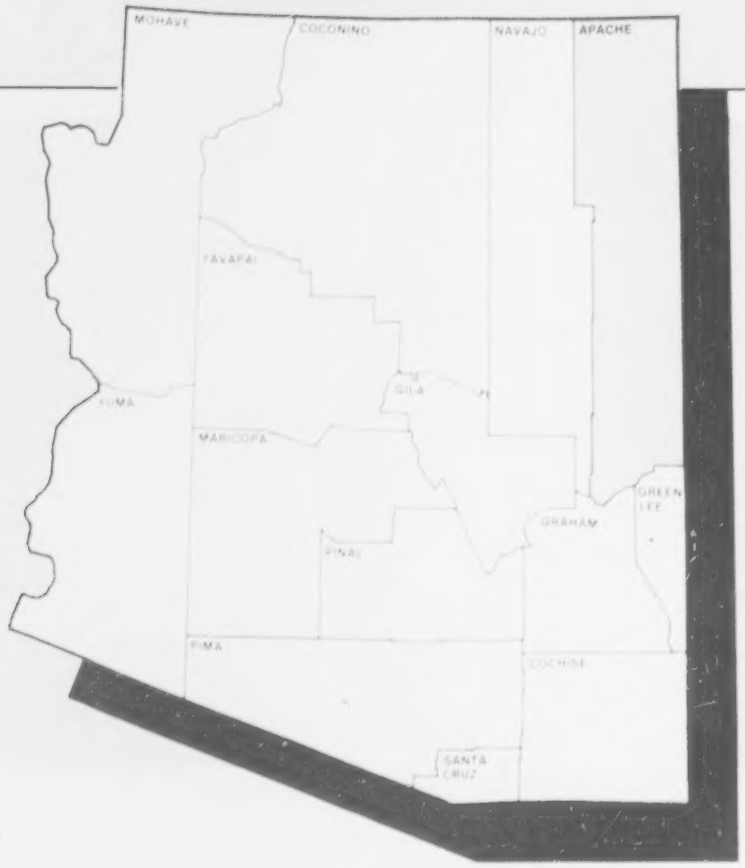
Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary	0
Secondary	0
Total	0

State Energy Contact

Alaska Oil and Gas Conservation Committee
3001 Porcupine Drive
Anchorage, AK 99501
Ph. 907-279-1433

ARIZONA



☐ Counties with oil and/or gas production

Background Information

Number of counties	14
With oil and/or gas production	1
Land area *(thous. acres)*	72,645
Total acreage under lease	23,747
Productive of oil and/or gas	6
Non-productive of oil and/or gas	23,741
Percentage of total land area leased	33%
Percentage of leased acreage productive of oil and/or gas	Less than 1%
First year of production:	
Crude oil	1954
Natural gas	1955
Year and amount of peak production:	
Crude oil—3,370 *thous. bbls.*	1968
Natural gas—3,161 *MMcf*	1966

Deepest well drilled: *(ft.)*	
Crude oil	6,793
Natural gas	Not Applicable
Dry hole	18,013

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	54	*11%*
Gas wells	35	*7%*
Dry holes	388	*82%*
Total	477	*100%*

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL *(mill. bbls.)*	Total	Natural Gas *(Bcf)*
Reserves	Unavailable	0	—	Unavailable
Production	Unavailable	0	—	Unavailable

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$27.00
Natural gas *($/Mcf)*	$2.44
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$4,725
Natural gas	$122
Total	$4,847
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$80,366

Rank in value of mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 9th	Less than 1%
Natural gas—ranked 13th	Less than 1%
State and local severance and production taxes paid in 1985 *(thous. $)*	Unavailable
Number of employees during 1985 in:	
Oil and gas extraction industry	126
Total petroleum industry	11,911

1985 Industry Statistics

Seismic crew months worked 4

Rotary drilling rigs active ..... Less than 1

Number of wells drilled:

	Exploratory	Development	Total
Oil	1	0	1
Gas	0	0	0
Dry	1	1	2
Service	—	0	0
Total	2	1	3

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	5.5	0	5.5
Gas	0	0	0
Dry	0.6	5.2	5.8
Service	—	0	0
Total	6.1	5.2	11.3

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 1

New-field wildcat footage *(thous. ft)* 0.6

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	29th	—
Production	30th	30th
Reserves (1984)	—	—

Number of producing wells: *(12/31/85)*

Crude oil 28

Natural gas ..... Unavailable

Total .....

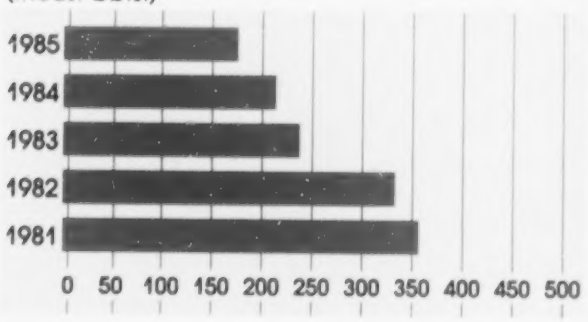
Percentage of producing oil wells on artificial lift 100%

Average production:	thous. bbls.	thous. b/d
Crude oil	175	—
NGL	0	—
Total	175	—

Natural gas marketed production *(MMcf)* 50

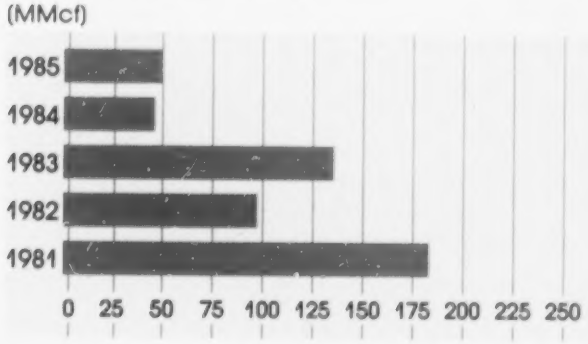
Crude Oil Production

(thous. bbls.)



Gas Production

(MMcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	Unavailable	0	—
Production	—	0	—
Net annual change	—	—	—
Proved reserves	Unavailable	0	—

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	—	—	Unavailable
Production	—	—	Unavailable
Net annual change	—	—	—
Proved reserves	—	—	Unavailable

Total estimated drilling costs ..... Unavailable

Cost per well .....

Cost per foot .....

Number of producing stripper wells *(12/31/84)* 14

Number of stripper well abandonments 1

Stripper well production *(thous. bbls.)* 29

Percentage of oil produced by stripper wells 14%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary 125

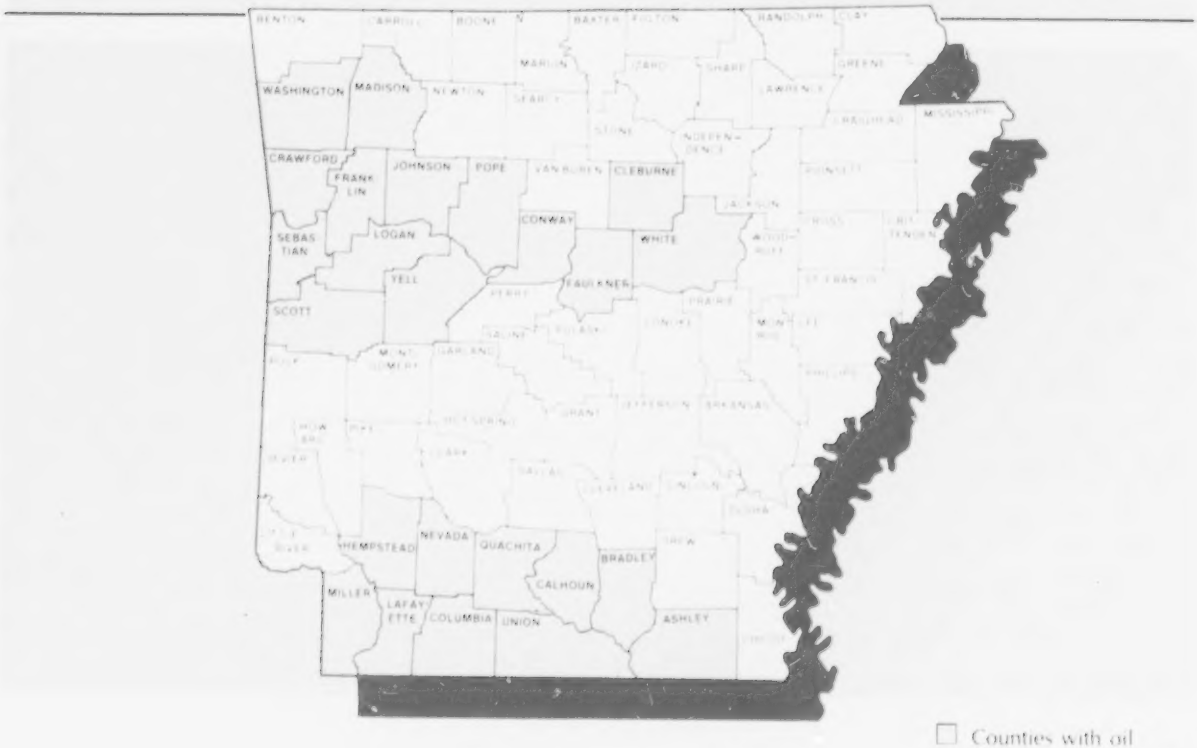
Secondary 0

Total 125

State Energy Contact

Arizona Oil and Gas Conservation Commission
1645 West Jefferson Street, Suite 420
Phoenix, AZ 85007
Ph. 602-255-5161

ARKANSAS



☐ Counties with oil and/or gas production

Background Information

Number of counties	75
With oil and/or gas production	24
Land area *(thous. acres)*	33,330
Total acreage under lease	10,694
Productive of oil and/or gas	1,205
Non-productive of oil and/or gas	9,489
Percentage of total land area leased	32%
Percentage of leased acreage productive of oil and/or gas	11%
First year of production:	
Crude oil	1921
Natural gas	1889
Year and amount of peak production:	
Crude oil—77,398 *thous. bbls.*	1925
Natural gas—181,351 *MMcf*	1970

Deepest well drilled: *(ft.)*	
Crude oil	12,128
Natural gas	11,195
Dry hole	17,349

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	17,551	53%
Gas wells	3,235	10%
Dry holes	12,368	37%
Total	33,154	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	1,684	91	1,775	6,528
Production	1,570	79	1,649	4,288

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$25.82
Natural gas *($/Mcf)*	$2.05
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$491,716
Natural gas	$263,835
Total	$755,551
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$6,862,050

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	46%
Natural gas—ranked 2nd	30%
State and local severance and production taxes paid in 1985 *(thous. $)*	$20,438
Number of employees during 1985 in:	
Oil and gas extraction	3,869
Total petroleum industry	14,636

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked	57
Rotary drilling rigs active	24

Number of wells drilled:

	Exploratory	Development	Total
Oil	8	373	381
Gas	9	245	254
Dry	104	236	340
Service	—	21	21
Total	121	875	996

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	71.1	1,047.9	1,119.0
Gas	39.3	1,159.3	1,198.6
Dry	598.2	1,086.7	1,684.9
Service	—	72.3	72.3
Total	708.6	3,366.2	4,074.8

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled	104
New-field wildcat footage *(thous. ft)*	602.1

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	14th	12th
Production	17th	15th
Reserves (1984)	17th	12th

Number of producing wells: *(12/31/85)*

Crude oil	9,700
Natural gas	2,550
Total	12,250

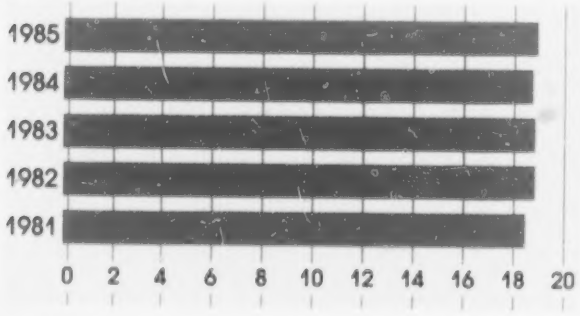
Percentage of producing oil wells on artificial lift	98%

Average production:	thous. bbls.	thous. b/d
Crude oil	19,044	52
NGL	1,000	3
Total	20,044	55

Natural gas marketed production *(MMcf)*	128,700

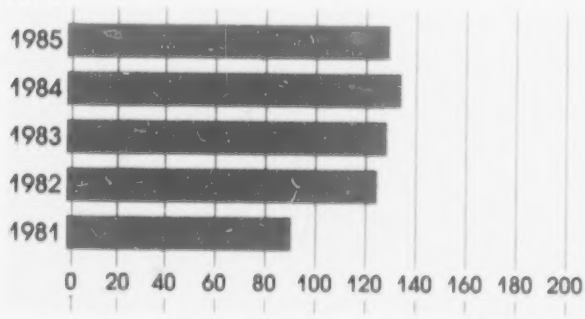
Crude Oil Production

(thous. bbls.)



Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	12	2	14
Production	18	1	19
Net annual change	–6	1	–5
Proved reserves	114	12	126

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	6	342	348
Production	11	178	189
Net annual change	–5	164	159
Proved reserves	189	2,051	2,240

Total estimated drilling costs	$194,761,711
Cost per well	$228,326
Cost per foot	$47.43

Number of producing stripper wells *(12/31/84)*	4,738
Number of stripper well abandonments	62
Stripper well production *(thous. bbls.)*	5,653
Percentage of oil produced by stripper wells	32%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary	143,220
Secondary	28,130
Total	171,350

State Energy Contact

Arkansas Oil and Gas Commission
314 East Oak Street
El Dorado, AR 71730
Ph. 501-862-4965

CALIFORNIA

☐ Counties with oil and/or gas production

Background Information

Number of counties	58
With oil and/or gas production	30
Land area *(thous. acres)*	100,031
Total acreage under lease	5,810
Productive of oil and/or gas	428
Non-productive of oil and/or gas	5,382
Percentage of total land area leased	6%
Percentage of leased acreage productive of oil and/or gas	7%
First year of production:	
Crude oil	1861
Natural gas	1889
Year and amount of peak production:	
Crude oil—423,877 *thous. bbls.*	1985
Natural gas—714,893 *MMcf*	1968

Deepest well drilled: *(ft.)*	
Crude oil	18,060
Natural gas	18,008
Dry hole	22,711

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	105,800	78%
Gas wells	3,210	3%
Dry holes	26,295	19%
Total	135,305	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	26,090	1,327	27,417	36,179
Production	20,383	1,186	21,569	30,462

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$22.13
Natural gas *($/Mcf)*	$2.65
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$9,380,398
Natural gas	$1,309,074
Total	$10,689,472
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$99,687,500

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	70%
Natural gas—ranked 2nd	14%
State and local severance and production taxes paid in 1985 *(thous. $)*	$15,146
Number of employees during 1985 in:	
Oil and gas extraction industry	39,809
Total petroleum industry	160,178

1985 Industry Statistics

Seismic crew months worked 149

Rotary drilling rigs active 81

Number of wells drilled:

	Exploratory	Development	Total
Oil	14	2,700	2,714
Gas	12	98	110
Dry	148	149	297
Service	—	184	184
Total	174	3,131	3,305

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	130.3	5,024.5	5,154.8
Gas	76.5	670.2	745.8
Dry	1,080.5	617.8	1,698.3
Service	—	281.5	281.5
Total	1,287.3	6,594.0	7,881.4

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 83

New-field wildcat footage *(thous. ft)* 634.5

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	3rd	13th
Production	4th	7th
Reserves (1984)	3rd	8th

Number of producing wells: *(12/31/85)*

Crude oil 49,874

Natural gas 1,319

Total 51,193

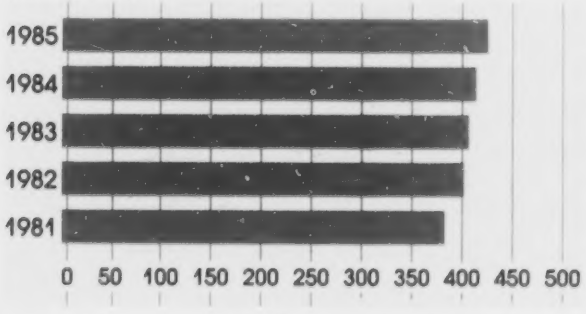
Percentage of producing oil wells on artificial lift 97%

Average production:	thous. bbls.	thous. b/d
Crude oil	423,877	1,161
NGL	9,000	25
Total	432,877	1,186

Natural gas marketed production *(MMcf)* 493,990

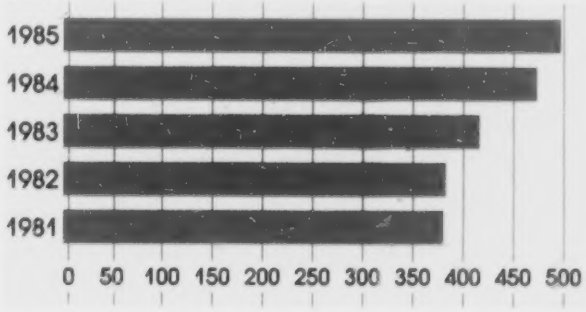
Crude Oil Production

(mill. bbls.)



Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	774	2	776
Production	415	12	427
Net annual change	359	–10	349
Proved reserves	5,707	141	5,848

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	75	136	211
Production	240	219	459
Net annual change	–165	–83	–248
Proved reserves	3,800	1,917	5,717

Total estimated drilling costs $1,090,506,036

Cost per well $318,396

Cost per foot $122.23

Number of producing stripper wells *(12/31/84)* 26,650

Number of stripper well abandonments 1,126

Stripper well production *(thous. bbls.)* 57,125

Percentage of oil produced by stripper wells 14%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary 207,500

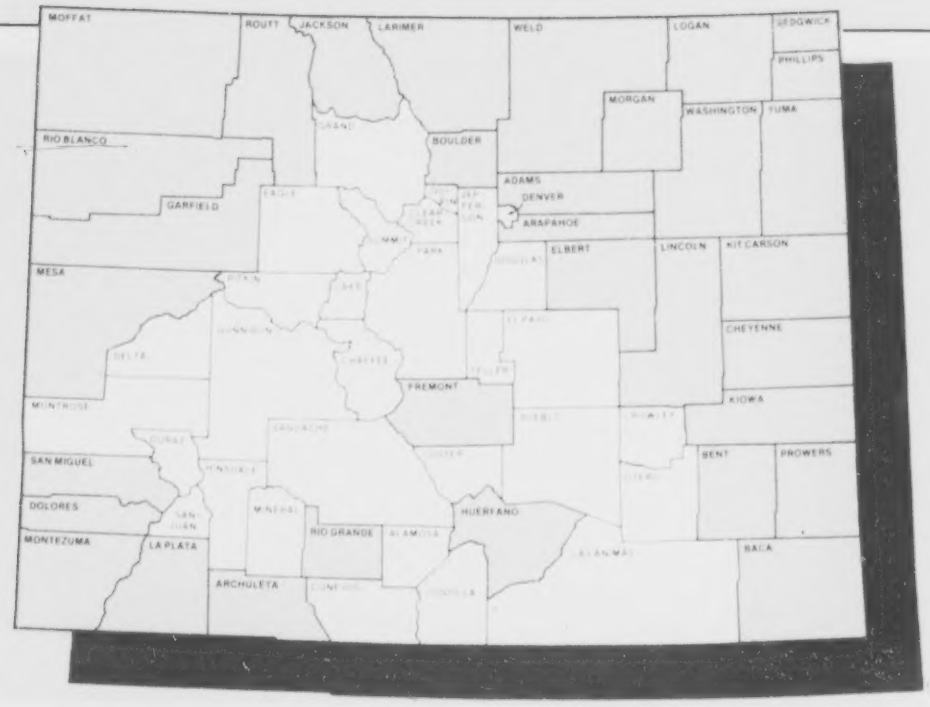
Secondary 72,900

Total 280,400

State Energy Contact

California Department of Conservation
Division of Oil and Gas
1416 Ninth Street
Sacramento, CA 95814
Ph. 916-445-9686

COLORADO



☐ Counties with oil and/or gas production

Background Information

Number of counties	63
With oil and/or gas production	33
Land area *(thous. acres)*	66,301
Total acreage under lease	35,622
Productive of oil and/or gas	1,556
Non-productive of oil and/or gas	34,066
Percentage of total land area leased	54%
Percentage of leased acreage productive of oil and/or gas	4%
First year of production:	
Crude oil	1862
Natural gas	1893
Year and amount of peak production:	
Crude oil—58,516 *thous. bbls.*	1956
Natural gas—209,892 *MMcf*	1982

Deepest well drilled: *(ft.)*	
Crude oil	12,704
Natural gas	17,632
Dry hole	19,710

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	10,275	*28%*
Gas wells	6,623	*18%*
Dry holes	19,964	*54%*
Total	36,862	*100%*

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	1,603	315	1,918	7,393
Production	1,405	160	1,565	4,253

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$25.64
Natural gas *($/Mcf)*	$2.90
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$775,507
Natural gas	$542,593
Total	$1,318,100
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$10,216,129

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	36%
Natural gas—ranked 2nd	26%
State and local severance and production taxes paid in 1985 *(thous. $)*	$18,480
Number of employees during 1985 in:	
Oil and gas extraction industry	24,193
Total petroleum industry	38,762

1985 Industry Statistics

Seismic crew months worked 131

Rotary drilling rigs active 50

Number of wells drilled:

	Exploratory	Development	Total
Oil	96	450	546
Gas	46	325	371
Dry	391	151	542
Service	—	21	21
Total	533	947	1,480

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	617.3	2,994.3	3,611.6
Gas	274.1	2,068.7	2,342.8
Dry	2,186.6	777.1	2,963.7
Service	—	127.7	127.7
Total	3,078.1	5,967.8	9,045.9

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 337

New-field wildcat footage *(thous. ft)* 1,895

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	12th	9th
Production	13th	10th
Reserves (1984)	12th	9th

Number of producing wells: *(12/31/85)*

Crude oil 5,457

Natural gas 4,529

Total 9,986

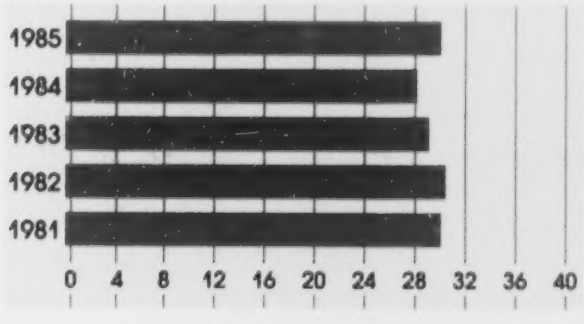
Percentage of producing oil wells on artificial lift 91%

Average production:	thous. bbls.	thous. b/d
Crude oil	30,246	83
NGL	7,000	19
Total	37,246	102

Natural gas marketed production *(MMcf)* 187,101

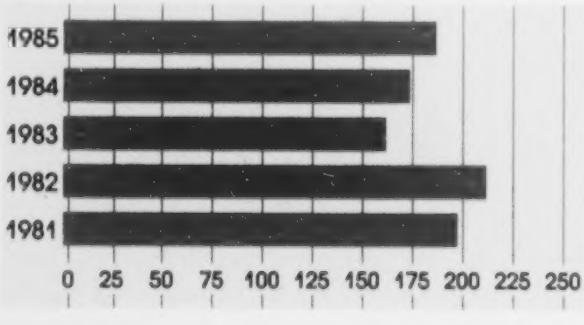
Crude Oil Production

(mill. bbls.)



Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	38	–19	19
Production	26	9	35
Net annual change	12	–28	–16
Proved reserves	198	155	353

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	65	–115	–50
Production	30	153	183
Net annual change	35	–268	–233
Proved reserves	208	2,932	3,140

Total estimated drilling costs $557,298,136

Cost per well $317,911

Cost per foot $53.46

Number of producing stripper wells *(12/31/84)* 1,690

Number of stripper well abandonments 36

Stripper well production *(thous. bbls.)* 3,330

Percentage of oil produced by stripper wells 11%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary 13,600

Secondary 6,860

Total 20,460

State Energy Contact

Colorado Oil and Gas Conservation Commission
1313 Sherman Street, Room 721
Denver, CO 80203
Ph. 303-866-3531

FLORIDA

☐ Counties with oil and/or gas production

Background Information

Number of counties	67
With oil and/or gas production	5
Land area *(thous. acres)*	34,658
Total acreage under lease	2,639
Productive of oil and/or gas	37
Non-productive of oil and/or gas	2,602
Percentage of total land area leased	8%
Percentage of leased acreage productive of oil and/or gas	1%
First year of production:	
Crude oil	1943
Natural gas	1943
Year and amount of peak production:	
Crude oil—47,536 *thous. bbls.*	1978
Natural gas—51,595 *MMcf*	1978

Deepest well drilled: *(ft.)*		
Crude oil		16,130
Natural gas		17,452
Dry hole		23,264
Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*		
Oil wells	269	28%
Gas wells	5	1%
Dry holes	675	71%
Total	949	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	633	76	709	552
Production	551	59	610	462

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$30.00
Natural gas *($/Mcf)*	$2.02
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$343,740
Natural gas	$21,420
Total	$365,160
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$7,650,212

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	23%
Natural gas—ranked 6th	2%
State and local severance and production taxes paid in 1985 *(thous. $)*	$21,629
Number of employees during 1985 in:	
Oil and gas extraction industry	1,051
Total petroleum industry	40,883

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked 18

Rotary drilling rigs active 7

Number of wells drilled:

	Exploratory	Development	Total
Oil	1	9	10
Gas	0	1	1
Dry	9	1	10
Service	—	0	0
Total	10	11	21

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	11.6	119.3	130.8
Gas	0	15.9	15.9
Dry	119.3	15.2	134.5
Service	—	0	0
Total	130.8	150.3	281.2

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 10

New-field wildcat footage *(thous. ft)* 130.8

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	26th	26th
Production	19th	22nd
Reserves (1984)	18th	23rd

Number of producing wells: *(12/31/85)*

Crude oil 149

Natural gas ..... Unavailable

Total .....

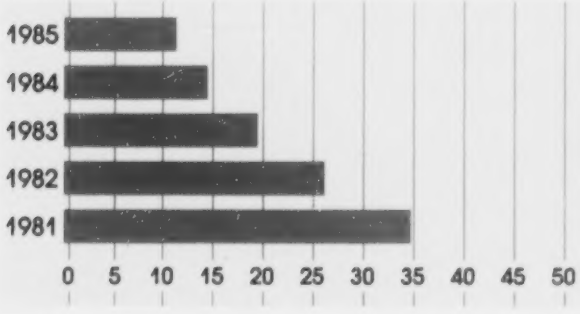
Percentage of producing oil wells on artificial lift 55%

Average production:	thous. bbls.	thous. b/d
Crude oil	11,458	31
NGL	2,000	5
Total	13,458	36

Natural gas marketed production *(MMcf)* 10,604

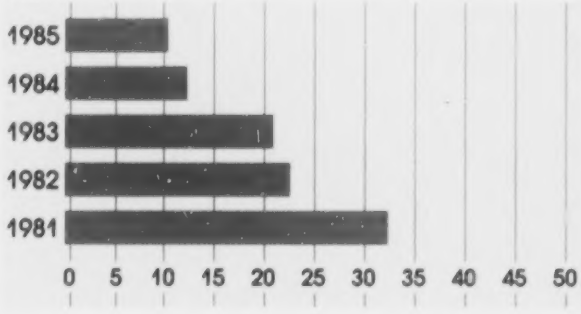
Crude Oil Production

(mill. bbls.)



Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84*:

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	19	9	28
Production	15	3	18
Net annual change	4	6	10
Proved reserves	82	17	99

Natural gas reserve position as of *12/31/84*:

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	42	0	42
Production	16	0	16
Net annual change	26	—	26
Proved reserves	90	0	90

Total estimated drilling costs $34,214,141

Cost per well $1,555,188

Cost per foot $114.95

Number of producing stripper wells *(12/31/84)* 0

Number of stripper well abandonments 0

Stripper well production *(thous. bbls.)* 0

Percentage of oil produced by stripper wells .....

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary 0

Secondary 0

Total 0

State Energy Contact

Florida Bureau of Geology
Division of Resource Management
903 West Tennessee Street
Tallahasee, FL 32304
Ph. 904-488-4191

ILLINOIS

☐ Counties with oil and/or gas production

Background Information

Number of counties	102
With oil and/or gas production	47
Land area *(thous. acres)*	35,613
Total acreage under lease	5,900
Productive of oil and/or gas	880
Non-productive of oil and/or gas	5,020
Percentage of total land area leased	17%
Percentage of leased acreage productive of oil and/or gas	15%
First year of production:	
Crude oil	1889
Natural gas	1882
Year and amount of peak production:	
Crude oil—147,647 *thous. bbls.*	1940
Natural gas—18,137 *MMcf*	1944

Deepest well drilled: *(ft.)*	
Crude oil	5,405
Natural gas	4,832
Dry hole	14,942

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	77,141	61%
Gas wells	1,470	1%
Dry holes	48,135	38%
Total	126,746	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	3,360	Unavailable	—	Unavailable
Production	3,207	Unavailable	—	Unavailable

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$26.90
Natural gas *($/Mcf)*	$2.06
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$814,129
Natural gas	$3,502
Total	$817,631
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$13,609,754

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 2nd	26%
Natural gas—ranked 7th	Less than 1%
State and local severance and production taxes paid in 1985 *(thous. $)*	Not Applicable
Number of employees during 1985 in:	
Oil and gas extraction industry	6,856
Total petroleum industry	59,871

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked	11
Rotary drilling rigs active	29

Number of wells drilled:

	Exploratory	Development	Total
Oil	61	1,225	1,286
Gas	2	20	22
Dry	362	437	799
Service	—	4	4
Total	425	1,686	2,111

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	184.3	2,938.9	3,123.2
Gas	0.7	12.4	13.1
Dry	790.0	1,135.2	1,925.2
Service	—	7.2	7.2
Total	975.0	4,093.7	5,068.8

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled	133
New-field wildcat footage *(thous. ft)*	206.6

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	7th	23rd
Production	12th	27th
Reserves (1984)	15th	—

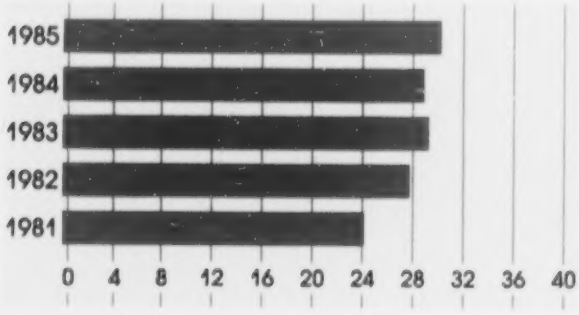
Number of producing wells: *(12/31/85)*	
Crude oil	31,100
Natural gas	190
Total	31,290
Percentage of producing oil wells on artificial lift	100%

Average production:	thous. bbls.	thous. b/d
Crude oil	30,265	83
NGL	Unavailable	—
Total	—	—

Natural gas marketed production *(MMcf)*	1,700

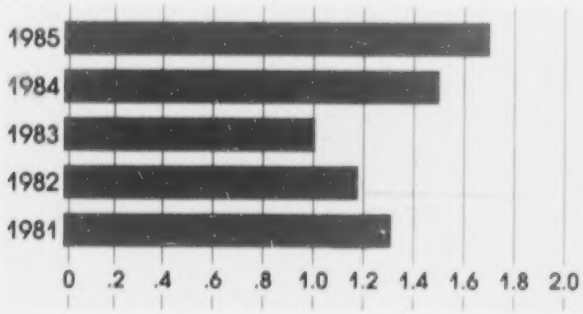
Crude Oil Production

(mill. bbls.)



Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	40	Unavailable	40
Production	22	0	22
Net annual change	18	—	18
Proved reserves	153	Unavailable	153

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	—	—	Unavailable
Production	—	—	Unavailable
Net annual change	—	—	—
Proved reserves	—	—	Unavailable

Total estimated drilling costs	$215,711,292
Cost per well	$82,902
Cost per foot	$32.47

Number of producing stripper wells *(12/31/84)*	29,942
Number of stripper well abandonments	629
Stripper well production *(thous. bbls.)*	25,984
Percentage of oil produced by stripper wells	90%
Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*	
Primary	57,225
Secondary	64,550
Total	121,775

State Energy Contact

Illinois Department of Mines and Minerals
704 William G. Stratton Building
Springfield, IL 62706
Ph. 217-782-7756

INDIANA

☐ Counties with oil and/or gas production

Background Information

Number of counties	92
With oil and/or gas production	40
Land area *(thous. acres)*	22,996
Total acreage under lease	8,000
Productive of oil and/or gas	6,295
Non-productive of oil and/or gas	1,705
Percentage of total land area leased	35%
Percentage of leased acreage productive of oil and/or gas	79%
First year of production:	
Crude oil	1889
Natural gas	1885
Year and amount of peak production:	
Crude oil—12,823 *thous. bbls.*	1953
Natural gas—2,241 *MMcf*	1936
Deepest well drilled: *(ft.)*	
Crude oil	4,508
Natural gas	3,355
Dry hole	7,980

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	38,068	59%
Gas wells	2,144	3%
Dry holes	24,584	38%
Total	64,796	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	522	Unavailable	—	Unavailable
Production	489	Unavailable	—	Unavailable

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$26.82
Natural gas *($/Mcf)*	$2.51
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$138,606
Natural gas	$1,255
Total	$139,861
Cumulative crude oil wellhead value as of 12/31/85; *(thous. $)*	$2,289,157
Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 2nd	11%
Natural gas—ranked 8th	Less than 1%
State and local severance and production taxes paid in 1985 *(thous. $)*	$1,398
Number of employees during 1985 in:	
Oil and gas extraction industry	898
Total petroleum industry	26,861

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked 3

Rotary drilling rigs active 4

Number of wells drilled:

	Exploratory	Development	Total
Oil	57	335	392
Gas	13	13	26
Dry	312	180	492
Service	—	28	28
Total	382	556	938

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	118.0	630.5	748.5
Gas	19.0	13.5	32.5
Dry	622.0	304.6	926.7
Service	—	35.5	35.5
Total	759.1	984.0	1,743.1

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 97

New-field wildcat footage *(thous. ft)* 181.8

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	13th	22nd
Production	22nd	28th
Reserves (1984)	24th	—

Number of producing wells: *(12/31/85)*

Crude oil	7,164
Natural gas	1,220
Total	8,384

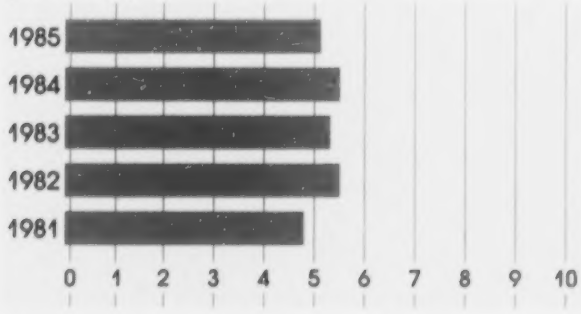
Percentage of producing oil wells on artificial lift 100%

Average production:	thous. bbls.	thous. b/d
Crude oil	5,168	14
NGL	Unavailable	—
Total	—	—

Natural gas marketed production *(MMcf)* 500

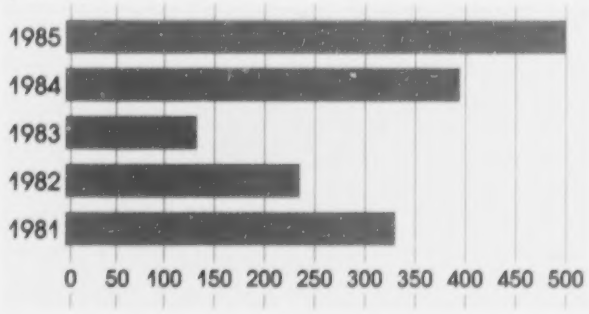
Crude Oil Production

(mill. bbls.)



Gas Production

(MMcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	3	Unavailable	3
Production	4	0	4
Net annual change	–1	—	–1
Proved reserves	33	Unavailable	33

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	—	—	Unavailable
Production	—	—	Unavailable
Net annual change	—	—	—
Proved reserves	—	—	Unavailable

Total estimated drilling costs $44,134,347

Cost per well $49,093

Cost per foot $26.15

Number of producing stripper wells *(12/31/84)* 6,134

Number of stripper well abandonments 366

Stripper well production *(thous. bbls.)* 4,401

Percentage of oil produced by stripper wells 82%

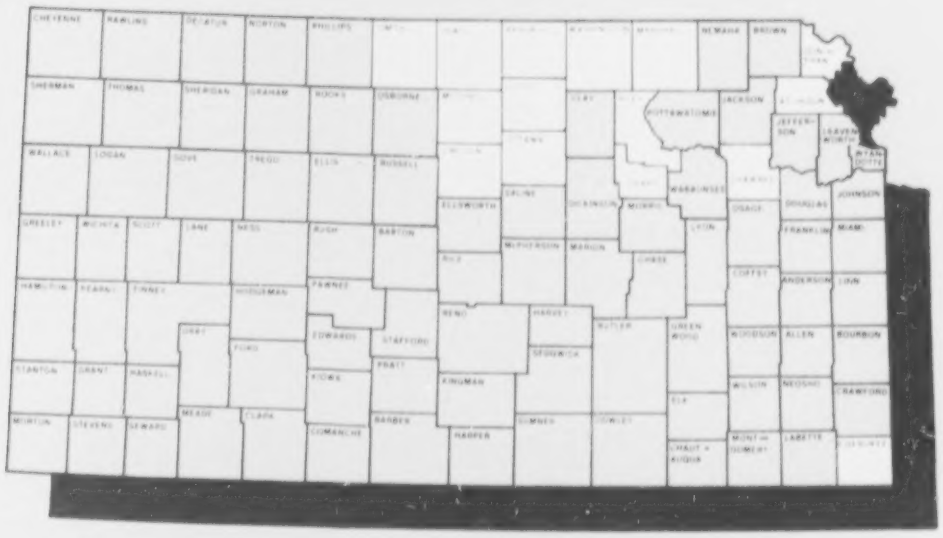
Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary	21,075
Secondary	17,275
Total	38,350

State Energy Contact

Indiana Department of Natural Resources
Division of Oil and Gas
911 State Office Building
Indianapolis, IN 46204
Ph. 317-232-4055

KANSAS



☐ Counties with oil and/or gas production

Background Information

Number of counties	105
With oil and/or gas production	90
Land area *(thous. acres)*	52,338
Total acreage under lease	16,380
Productive of oil and/or gas	8,795
Non-productive of oil and/or gas	7,585
Percentage of total land area leased	31%
Percentage of leased acreage productive of oil and/or gas	54%
First year of production:	
Crude oil	1889
Natural gas	1882
Year and amount of peak production:	
Crude oil—124,204 *thous. bbls.*	1956
Natural gas—899,955 *MMcf*	1970

Deepest well drilled: *(ft.)*	
Crude oil	7,400
Natural gas	6,774
Dry hole	11,300

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	117,263	51%
Gas wells	22,021	10%
Dry holes	89,891	39%
Total	229,175	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	5,582	1,141	6,723	38,424
Production	5,205	717	5,922	28,443

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$25.33
Natural gas *($/Mcf)*	$1.20
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$1,910,059
Natural gas	$615,636
Total	$2,525,695
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$27,039,980

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	67%
Natural gas—ranked 2nd	22%
State and local severance and production taxes paid in 1985 *(thous. $)*	$241,700
Number of employees during 1985 in:	
Oil and gas extraction industry	15,460
Total petroleum industry	34,191

1985 Industry Statistics

Seismic crew months worked	69
Rotary drilling rigs active	92

Number of wells drilled:

	Exploratory	Development	Total
Oil	377	1,782	2,159
Gas	73	414	487
Dry	1,244	1,261	2,505
Service	—	95	95
Total	1,694	3,552	5,246

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	1,505.4	6,101.3	7,606.7
Gas	269.4	1,282.0	1,551.4
Dry	4,864.4	4,710.8	9,575.2
Service	—	318.3	318.3
Total	6,639.1	12,412.4	19,051.5

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled	335
New-field wildcat footage *(thous. ft)*	1,300.4

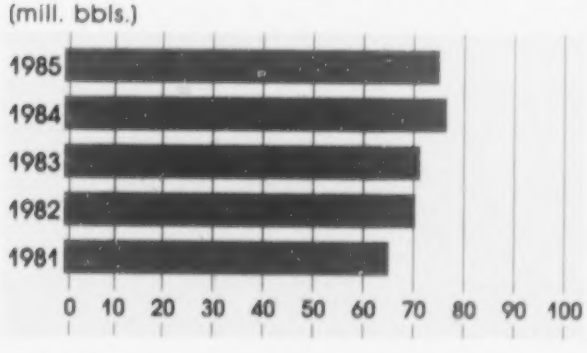
State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	6th	8th
Production	8th	5th
Reserves (1984)	8th	7th

Number of producing wells: *(12/31/85)*	
Crude oil	51,888
Natural gas	11,776
Total	63,664
Percentage of producing oil wells on artificial lift	99%

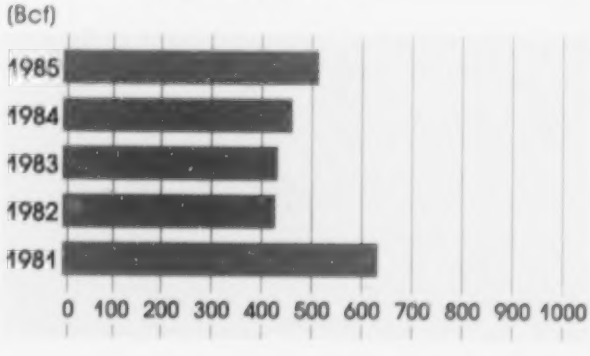
Average production:	thous. bbls.	thous. b/d
Crude oil	75,407	207
NGL	15,000	41
Total	90,407	248

Natural gas marketed production *(MMcf)* 513,030

Crude Oil Production



Gas Production



1984 Latest Data

Petroleum reserve position as of *12/31/84*:

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	100	1	101
Production	67	20	87
Net annual change	33	-19	14
Proved reserves	377	424	801

Natural gas reserve position as of *12/31/84*:

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	-2	275	273
Production	20	455	475
Net annual change	-22	-180	-202
Proved reserves	110	9,871	9,981

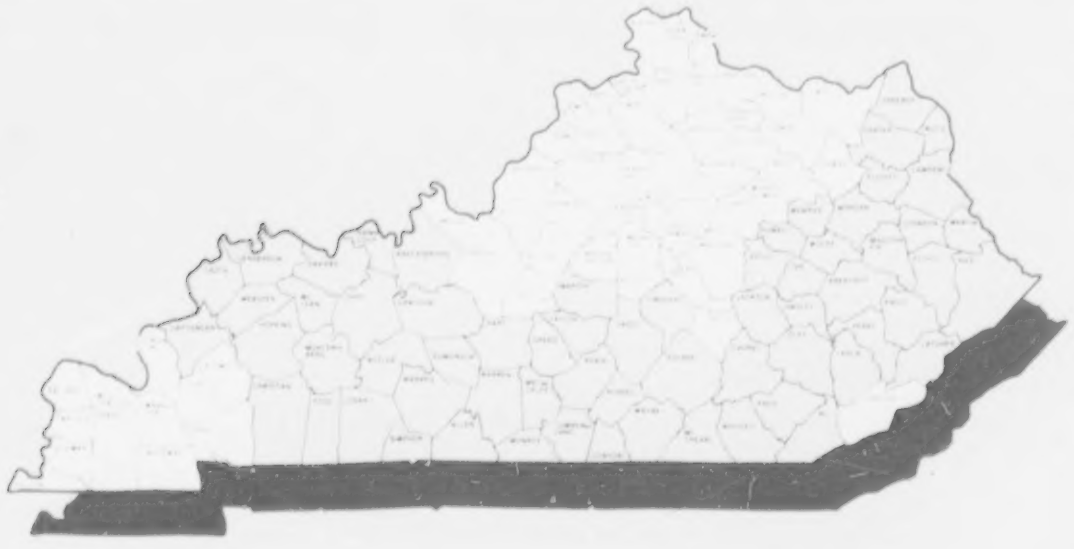
Total estimated drilling costs	$586,751,564
Cost per well	$97,338
Cost per foot	$26.56

Number of producing stripper wells *(12/31/84)*	45,749
Number of stripper well abandonments	1,505
Stripper well production *(thous. bbls.)*	48,665
Percentage of oil produced by stripper wells	64%
Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*	
Primary	191,450
Secondary	126,850
Total	318,300

State Energy Contact

Kansas Corporation Commission
200 Colorado Derby
202 West 1st Street
Wichita, KS 67202
Ph. 316-263-3238

KENTUCKY



☐ Counties with oil and/or gas production

Background Information

Number of counties	120
With oil and/or gas production	64
Land area *(thous. acres)*	25,388
Total acreage under lease	5,458
Productive of oil and/or gas	1,089
Non-productive of oil and/or gas	4,369
Percentage of total land area leased	21%
Percentage of leased acreage productive of oil and/or gas	20%
First year of production:	
Crude oil	1860
Natural gas	1888
Year and amount of peak production:	
Crude oil—27,272 *thous. bbls.*	1959
Natural gas—96,459 *MMcf*	1947

Deepest well drilled: *(ft.)*	
Crude oil	7,598
Natural gas	10,934
Dry hole	15,200

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	51,016	52%
Gas wells	10,663	11%
Dry holes	36,921	37%
Total	98,600	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	720	138	858	4,332
Production	679	114	793	3,685

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$26.19
Natural gas *($/Mcf)*	$1.29
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$204,020
Natural gas	$90,300
Total	$294,320
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$15,743,420

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 2nd	4%
Natural gas—ranked 4th	2%
State and local severance and production taxes paid in 1985 *(thous. $)*	$23,735
Number of employees during 1985 in:	
Oil and gas extraction industry	3,394
Total petroleum industry	23,200

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked 3

Rotary drilling rigs active 6

Number of wells drilled:

	Exploratory	Development	Total
Oil	68	871	939
Gas	74	283	357
Dry	412	433	845
Service	—	32	32
Total	554	1,619	2,173

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	94.2	1,090.2	1,184.4
Gas	125.6	561.7	687.3
Dry	559.2	547.7	1,106.9
Service	—	45.2	45.2
Total	779.0	2,244.8	3,023.8

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 37

New-field wildcat footage *(thous. ft)* 50

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	9th	10th
Production	20th	18th
Reserves (1984)	22nd	19th

Number of producing wells *(12/31/85)*:

Crude oil	21,844
Natural gas	9,515
Total	31,359

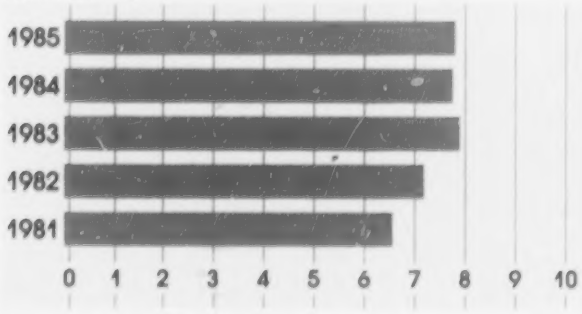
Percentage of producing wells on artificial lift 100%

Average production:	thous. bbls.	thous. b/d
Crude oil	7,790	21
NGL	2,000	5
Total	9,790	26

Natural gas marketed production *(MMcf)* 70,000

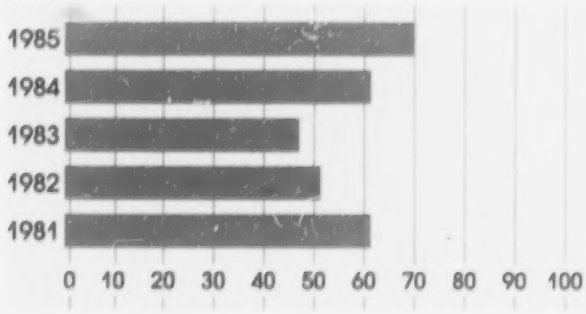
Crude Oil Production

(mill. bbls.)



Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84*:

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	12	–5	7
Production	6	2	8
Net annual change	6	–7	–1
Proved reserves	41	24	65

Natural gas reserve position as of *12/31/84*:

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	0	104	104
Production	2	55	57
Net annual change	–2	49	47
Proved reserves	17	630	647

Total estimated drilling costs $137,514,179

Cost per well $43,407

Cost per foot $30.63

Number of producing stripper wells *(12/31/84)* 16,433

Number of stripper well abandonments 393

Stripper well production *(thous. bbls.)* 6,630

Percentage of oil produced by stripper wells 85%

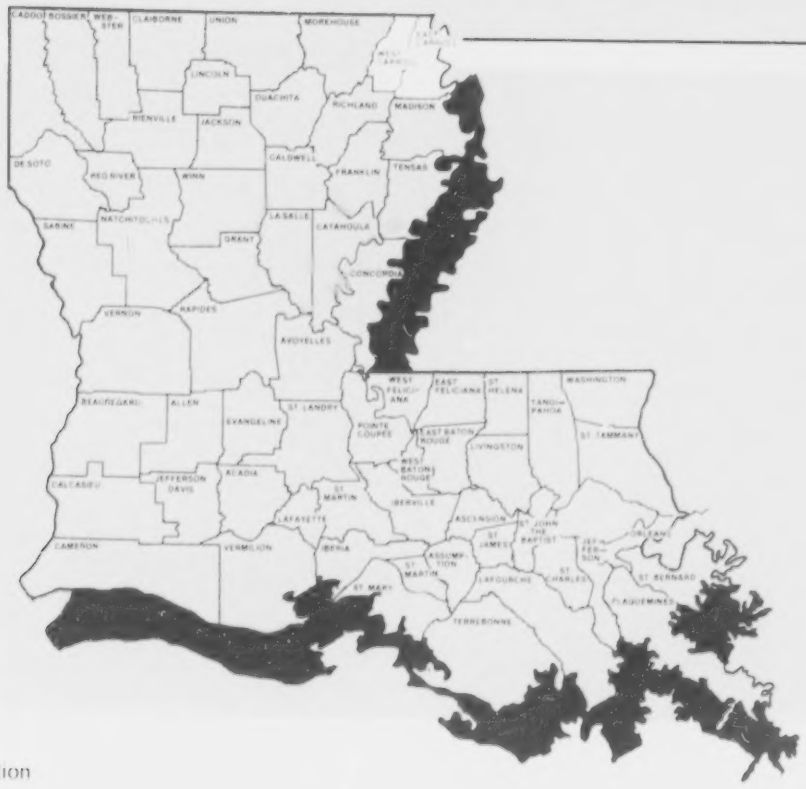
Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary	22,322
Secondary	17,207
Total	39,529

State Energy Contact

Kentucky Department of Mines and Minerals
Oil and Gas Division
P.O. Box 690
Lexington, KY 40586
Ph. 606-257-3812

LOUISIANA



☐ Parishes with oil and/or gas production

Background Information

Number of parishes	64
With oil and/or gas production	62
Land area *(thous. acres)*	28,493
Total acreage under lease	14,080
Productive of oil and/or gas	7,609
Non-productive of oil and/or gas	6,471
Percentage of total land area leased	49%
Percentage of leased acreage productive of oil and/or gas	54%
First year of production:	
Crude oil	1902
Natural gas	1905
Year and amount of peak production:	
Crude oil—935,243 *thous. bbls.*	1971
Natural gas—8,242,423 *MMcf*	1973

Deepest well drilled: *(ft.)*	
Crude oil	22,856
Natural gas	21,862
Dry hole	26,500

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	81,551	46%
Gas wells	29,884	17%
Dry holes	66,351	37%
Total	177,786	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	24,889	3,540	28,429	225,245
Production	22,228	2,352	24,580	182,897

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$27.24
Natural gas *($/Mcf)*	$2.66
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$13,844,430
Natural gas	$13,689,126
Total	$27,533,556
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$152,083,829

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 2nd	48%
Natural gas—ranked 1st	50%
State and local severance and production taxes paid in 1985 *(thous. $)*	$731,760
Number of employees during 1985 in:	
Oil and gas extraction industry	78,500
Total petroleum industry	112,600

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked	280
Rotary drilling rigs active	283

Number of wells drilled:

	Exploratory	Development	Total
Oil	26	2,387	2,413
Gas	41	937	978
Dry	550	1,317	1,867
Service	—	75	75
Total	617	4,716	5,333

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	320.8	8,285.4	8,606.2
Gas	386.1	5,995.6	6,381.7
Dry	4,886.2	9,321.6	14,207.9
Service	—	187.0	187.0
Total	5,593.1	23,789.6	29,382.7

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled	532
New-field wildcat footage *(thous. ft)*	4,700.6

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	4th	6th
Production	3rd	2nd
Reserves (1984)	4th	2nd

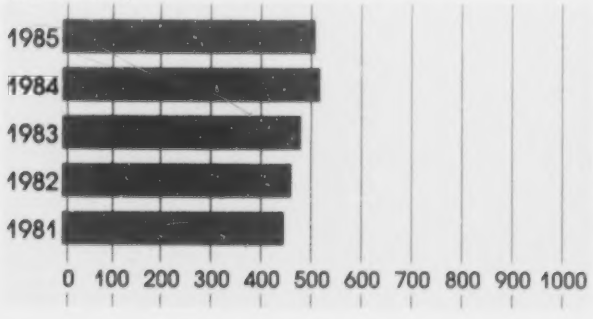
Number of producing wells: *(12/31/85)*	
Crude oil	25,823
Natural gas	14,436
Total	40,259
Percentage of producing oil wells on artificial lift	91%

Average production:	thous. bbls.	thous. b/d
Crude oil	508,239	1,392
NGL	125,000	342
Total	633,239	1,734

Natural gas marketed production *(MMcf)* 5,146,288

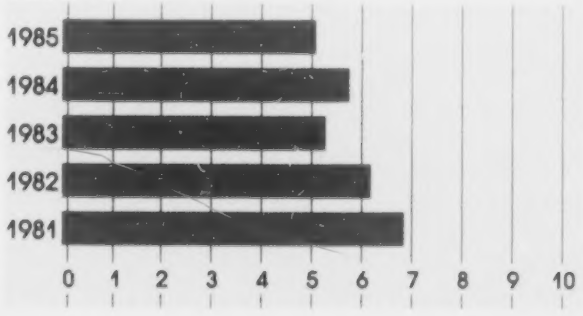
Crude Oil Production

(mill. bbls.)



Gas Production

(Tcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	403	22	425
Production	449	166	615
Net annual change	-46	-144	-190
Proved reserves	2,661	1,188	3,849

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	673	3,821	4,494
Production	836	4,973	5,809
Net annual change	-163	-1,152	-1,315
Proved reserves	7,439	34,909	42,348

Total estimated drilling costs	$5,055,837,072
Cost per well	$756,862
Cost per foot	$139.56

Number of producing stripper wells *(12/31/84)*	16,500
Number of stripper well abandonments	852
Stripper well production *(thous. bbls.)*	9,844
Percentage of oil produced by stripper wells	7%
Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*	
Primary	71,325
Secondary	68,500
Total	139,825

State Energy Contact

Louisiana Department of Natural Resources
P.O. Box 44396
Capitol Station
Baton Rouge, LA 70804
Ph. 504-342-4500

MARYLAND

☐ Counties with oil and/or gas production

Background Information

Number of counties 23
With oil and/or gas production 1

Land area *(thous. acres)* 6,296
Total acreage under lease 316
Productive of oil and/or gas 16
Non-productive of oil and/or gas 300
Percentage of total land area leased 5%
Percentage of leased acreage productive of oil and/or gas 5%

First year of production:
Crude oil ..... Not Applicable
Natural gas 1951

Year and amount of peak production:
Crude oil ..... Not Applicable
Natural gas—4,543 *MMcf* 1959

Deepest well drilled: *(ft.)*
Crude oil ..... Not Applicable
Natural gas 8,675
Dry hole 11,617

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	0	0%
Gas wells	81	48%
Dry holes	87	52%
Total	168	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	0	0	—	Unavailable
Production	0	0	—	Unavailable

Value of Oil and Gas

Average 1985 wellhead price:
Crude oil *($/bbl.)* ..... Not Applicable
Natural gas *($/Mcf)* $0.60

Wellhead value of 1985 production: *(thous. $)*
Crude oil ..... Not Applicable
Natural gas $36
Total $36

Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)* ..... Not Applicable

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)
Crude oil ..... Not Applicable
Natural gas—ranked 7th ..... Less than 1%

State and local severance and production taxes paid in 1985 *(thous. $)* $1

Number of employees during 1985 in:
Oil and gas extraction industry 23
Total petroleum industry 17,337

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked 0

Rotary drilling rigs active 0

Number of wells drilled:

	Exploratory	Development	Total
Oil	0	0	—
Gas	0	0	—
Dry	0	0	—
Service	—	0	—
Total	0	0	—

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	0	0	—
Gas	0	0	—
Dry	0	0	—
Service	—	0	—
Total	0	0	—

Number of new-field wildcats drilled 0

New-field wildcat footage (thous. ft) 0

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	—	—
Production	—	29th
Reserves (1984)	—	—

Number of producing wells: (12/31/85)

Crude oil 0

Natural gas ..... Unavailable

Total .....

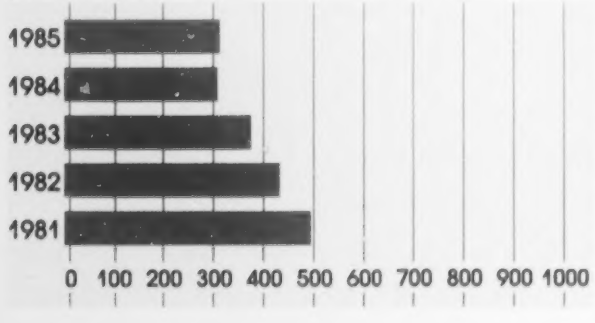
Percentage of producing oil wells on artificial lift .....

Average production:	thous bbls.	thous. b/d
Crude oil	0	—
NGL	0	—
Total	0	—

Natural gas marketed production (MMcf) 60

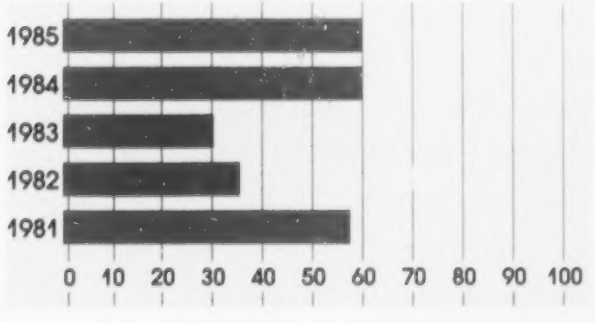
Acreage Under Lease

(thous. acres)



Gas Production

(MMcf)



1984 Latest Data

Petroleum reserve position as of 12/31/84:

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	0	0	—
Production	0	0	—
Net annual change	—	—	—
Proved reserves	0	0	—

Natural gas reserve position as of 12/31/84:

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	—	—	Unavailable
Production	—	—	—
Net annual change	—	—	—
Proved reserves	—	—	Unavailable

Total estimated drilling costs ..... Not Applicable

Cost per well .....

Cost per foot .....

Number of producing stripper wells (12/31/84) 0

Number of stripper well abandonments 0

Stripper well production (thous. bbls.) 0

Percentage of oil produced by stripper wells .....

Stripper crude oil reserves as of 12/31/84: (thous. bbls.)

Primary 0

Secondary 0

Total 0

State Energy Contact

Maryland Geological Survey
The Rotunda
711 West 40th Street
Baltimore, MD 21211
Ph. 301-338-7084

MICHIGAN

☐ Counties with oil and/or gas production

Background Information

Number of counties	83
With oil and/or gas production	60
Land area *(thous. acres)*	36,451
Total acreage under lease	14,931
Productive of oil and/or gas	653
Non-productive of oil and/or gas	14,278
Percentage of total land area leased	41%
Percentage of leased acreage productive of oil and/or gas	4%
First year of production:	
Crude oil	1889
Natural gas	1909
Year and amount of peak production:	
Crude oil—34,862 *thous. bbls.*	1979
Natural gas—159,731 *MMcf*	1979

Deepest well drilled: *(ft.)*	
Crude oil	10,515
Natural gas	11,252
Dry hole	17,466

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	13,907	39%
Gas wells	2,722	8%
Dry holes	18,696	53%
Total	35,325	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	1,137	190	1,327	2,095
Production	957	106	1,063	902

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$26.17
Natural gas *($/Mcf)*	$2.65
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$714,441
Natural gas	$393,154
Total	$1,107,595
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$8,950,467

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	31%
Natural gas—ranked 2nd	19%
State and local severance and production taxes paid in 1985 *(thous. $)*	$81,704
Number of employees during 1985 in	
Oil and gas extraction industry	4,200
Total petroleum industry	40,780

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked	241
Rotary drilling rigs active	34

Number of wells drilled:

	Exploratory	Development	Total
Oil	30	197	227
Gas	19	22	41
Dry	392	163	555
Service	—	15	15
Total	441	397	838

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	123.9	678.9	802.7
Gas	94.9	78.0	173.0
Dry	1,749.5	666.1	2,415.5
Service	—	52.0	52.0
Total	1,968.3	1,474.9	3,443.2

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled	433
New-field wildcat footage *(thous. ft.)*	1,930.6

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	16th	21st
Production	15th	12th
Reserves (1984)	13th	16th

Number of producing wells: *(12/31/85)*

Crude oil	5,125
Natural gas	755
Total	5,880
Percentage of producing oil wells on artificial lift	88%

Average production:	thous. bbls.	thous. b/d
Crude oil	27,300	75
NGL	9,000	25
Total	36,300	100

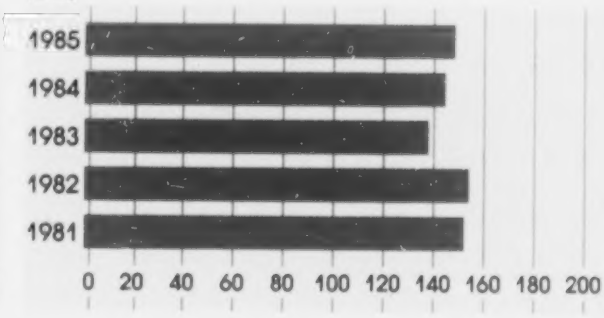
Natural gas marketed production *(MMcf)* 148,360

Crude Oil Production

(mill. bbls.)

Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	–2	–10	–12
Production	27	11	38
Net annual change	–29	–21	–50
Proved reserves	180	84	264

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	17	–29	–12
Production	67	81	148
Net annual change	–50	–110	–160
Proved reserves	774	419	1,193

Total estimated drilling costs	$254,596,490
Cost per well	$248,387
Cost per foot	$51.78

Number of producing stripper wells *(12/31/84)*	3,500
Number of stripper well abandonments	107
Stripper well production *(thous. bbls.)*	3,228
Percentage of oil produced by stripper wells	11%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary	22,250
Secondary	32,000
Total	54,250

State Energy Contact

Michigan Geological Survey
Department of Natural Resources
P.O. Box 30028
Lansing, MI 48909
Ph. 517-334-6907

MISSISSIPPI

☐ Counties with oil and/or gas production

Background Information

Number of counties	82
With oil and/or gas production	45
Land area *(thous. acres)*	30,229
Total acreage under lease	9,500
Productive of oil and/or gas	710
Non-productive of oil and/or gas	8,790
Percentage of total land area leased	31%
Percentage of leased acreage productive of oil and/or gas	7%
First year of production:	
Crude oil	1889
Natural gas	1923
Year and amount of peak production:	
Crude oil—65,119 *thous. bbls.*	1970
Natural gas—181,238 *MMcf*	1981

Deepest well drilled: *(ft.)*	
Crude oil	21,533
Natural gas	21,727
Dry hole	25,460

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	7,356	32%
Gas wells	1,282	6%
Dry holes	14,156	62%
Total	22,794	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas
	(mill. bbls.)			*(Bcf)*
Reserves	2,258	114	2,372	7,855
Production	2,057	99	2,156	6,359

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$25.51
Natural gas *($/Mcf)*	$3.15
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$781,652
Natural gas	$417,318
Total	$1,198,970
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$10,973,424

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	58%
Natural gas—ranked 2nd	36%
State and local severance and production taxes paid in 1985 *(thous. $)*	$82,382
Number of employees during 1985 in:	
Oil and gas extraction industry	8,116
Total petroleum industry	20,223

1985 Industry Statistics

Seismic crew months worked 78

Rotary drilling rigs active 31

Number of wells drilled:

	Exploratory	Development	Total
Oil	31	118	149
Gas	15	41	56
Dry	212	151	363
Service	—	0	0
Total	258	310	568

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	309.2	1,013.2	1,322.4
Gas	126.1	391.5	517.6
Dry	1,790.9	1,213.0	3,004.0
Service	—	0	0
Total	2,226.2	2,617.7	4,844.0

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 257

New-field wildcat footage *(thous. ft)* 2,214.9

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	19th	19th
Production	11th	14th
Reserves (1984)	11th	15th

Number of producing wells: *(12/31/85)*

Crude oil 3,468

Natural gas 690

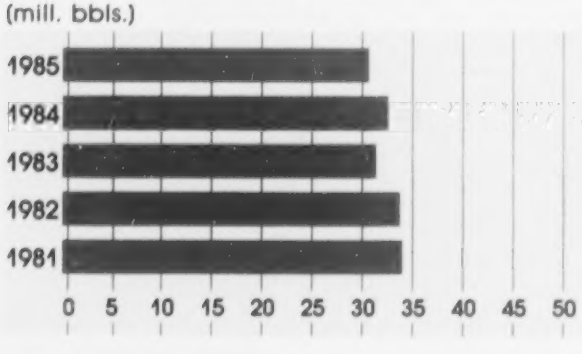
Total 4,158

Percentage of producing oil wells on artificial lift 97%

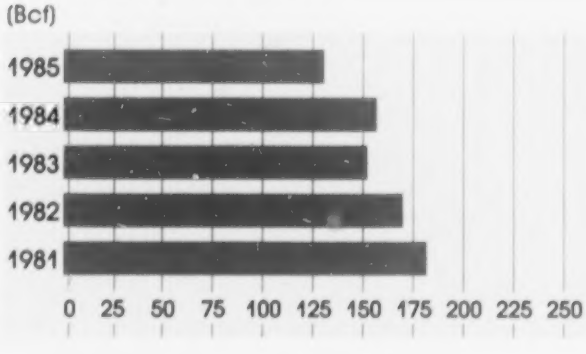
Average production:	thous. bbls.	thous. b/d
Crude oil	30,641	84
NGL	2,000	5
Total	32,641	89

Natural gas marketed production *(MMcf)* 132,482

Crude Oil Production



Gas Production



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	27	–2	25
Production	31	2	33
Net annual change	–4	–4	–8
Proved reserves	201	15	216

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	47	28	75
Production	13	169	182
Net annual change	34	–141	–107
Proved reserves	114	1,382	1,496

Total estimated drilling costs $301,045,762

Cost per well $492,710

Cost per foot $58.91

Number of producing stripper wells *(12/31/84)* 837

Number of stripper well abandonments 96

Stripper well production *(thous. bbls.)* 1,330

Percentage of oil produced by stripper wells 4%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary 15,810

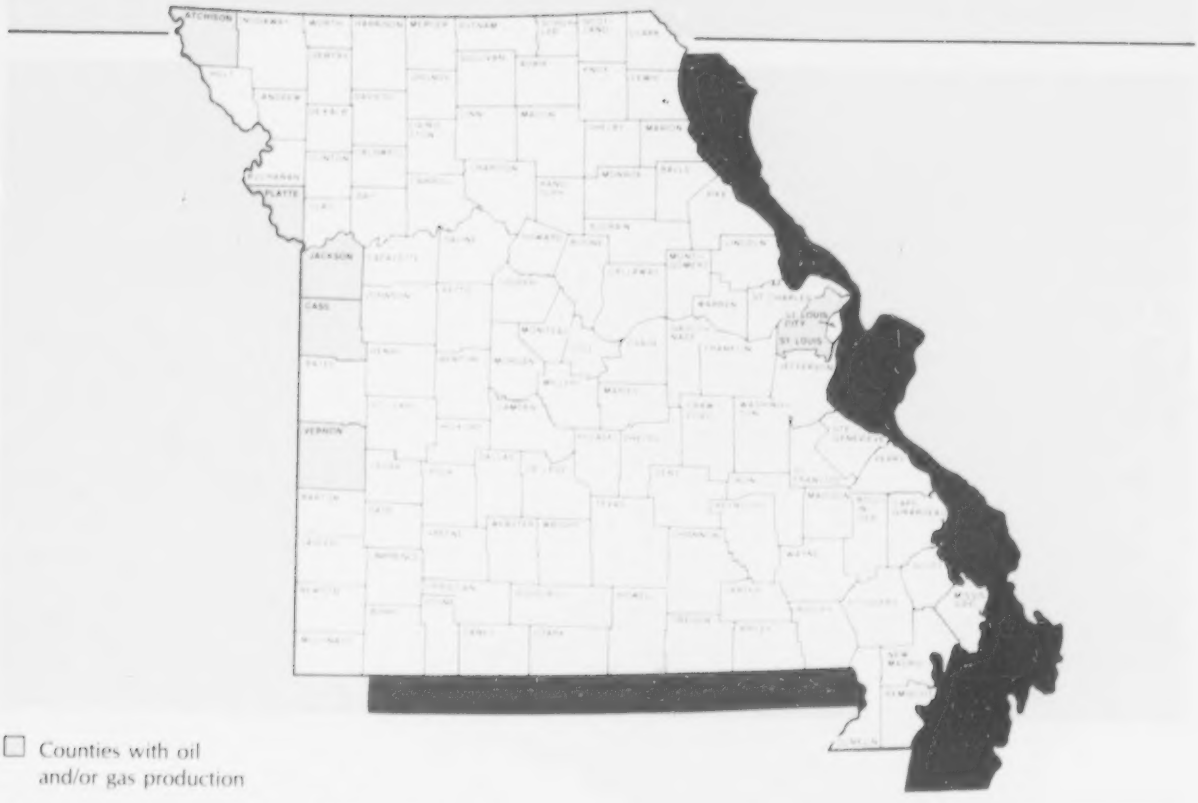
Secondary 2,790

Total 18,600

State Energy Contact

Mississippi State Oil and Gas Board
P.O. Box 1332
Jackson, MS 39205
Ph. 601-359-3725

MISSOURI



☐ Counties with oil and/or gas production

Background Information

Number of counties	114
With oil and/or gas production	6
Land area *(thous. acres)*	44,125
Total acreage under lease	712
Productive of oil and/or gas	12
Non-productive of oil and/or gas	700
Percentage of total land area leased	2%
Percentage of leased acreage productive of oil and/or gas	2%
First year of production:	
Crude oil	1888
Natural gas	1887
Year and amount of peak production:	
Crude oil—285 *thous. bbls.*	1984
Natural gas—1,369 *MMcf*	1938

Deepest well drilled: *(ft.)*	
Crude oil	2,975
Natural gas	765
Dry hole	4,906

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	719	37%
Gas wells	196	10%
Dry holes	1,050	53%
Total	1,965	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	Unavailable	0	—	Unavailable
Production	Unavailable	0	—	Unavailable

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$27.00
Natural gas *($/Mcf)*	$3.95
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$6,561
Natural gas	$20
Total	$6,581
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$49,549

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 9th	1%
Natural gas—ranked 13th	Less than 1%
State and local severance and production taxes paid in 1985 *(thous. $)*	Not Applicable
Number of employees during 1985 in:	
Oil and gas extraction industry	132
Total petroleum industry	27,666

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked 3

Rotary drilling rigs active 0

Number of wells drilled:

	Exploratory	Development	Total
Oil	0	6	6
Gas	1	0	1
Dry	14	1	15
Service	—	3	3
Total	15	10	25

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	0	1.4	1.4
Gas	0.6	0	0.6
Dry	13.6	0.2	13.8
Service	—	1.2	1.2
Total	14.2	2.8	17.0

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 9

New-field wildcat footage *(thous. ft)* 12.1

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	28th	26th
Production	29th	31st
Reserves (1984)	—	—

Number of producing wells: *(12/31/85)*

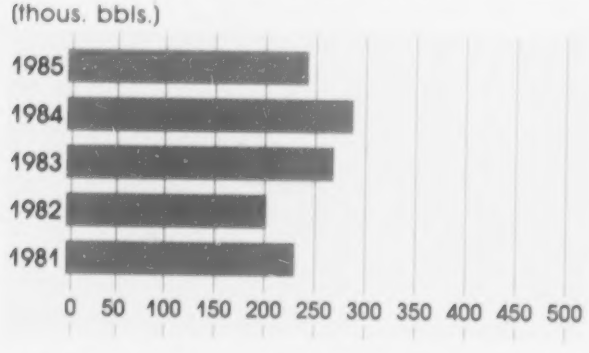
Crude oil	581
Natural gas	0
Total	581

Percentage of producing oil wells on artificial lift 100%

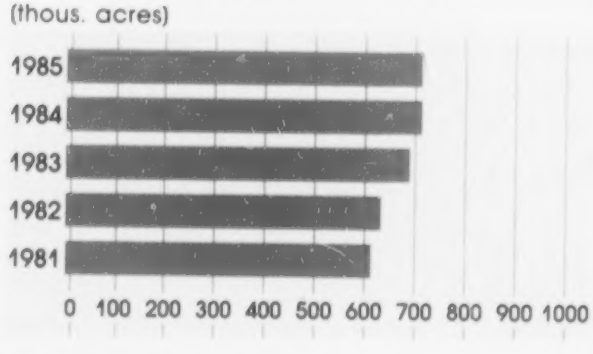
Average production:	thous. bbls.	thous. b/d
Crude oil	243	1
NGL	0	0
Total	243	1

Natural gas marketed production *(MMcf)* 5

Crude Oil Production



Acreage Under Lease



1984 Latest Data

Petroleum reserve position as of *12/31/84*:

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	Unavailable	0	—
Production	—	0	—
Net annual change	—	—	—
Proved reserves	Unavailable	0	—

Natural gas reserve position as of *12/31/84*:

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	—	—	0
Production	—	—	—
Net annual change	—	—	—
Proved reserves	—	—	Unavailable

Total estimated drilling costs ..... Unavailable

Cost per well .....

Cost per foot .....

Number of producing stripper wells *(12/31/84)* 548

Number of stripper well abandonments ..... Unavailable

Stripper well production *(thous. bbls.)* 271

Percentage of oil produced by stripper wells 99%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary	0
Secondary	148
Total	148

State Energy Contact

Missouri Department of Economic Development
Oil and Gas Research Division
301 West High Street
Jefferson City, MO 65101
Ph. 314-751-3674

MONTANA

☐ Counties with oil and/or gas production

Background Information

Number of counties	56
With oil and/or gas production	32
Land area *(thous. acres)*	93,048
Total acreage under lease	44,111
Productive of oil and/or gas	1,105
Non-productive of oil and/or gas	43,006
Percentage of total land area leased	47%
Percentage of leased acreage productive of oil and/or gas	3%
First year of production:	
Crude oil	1916
Natural gas	1915
Year and amount of peak production:	
Crude oil—48,460 *thous. bbls.*	1968
Natural gas—56,565 *MMcf*	1981

Deepest well drilled: *(ft.)*	
Crude oil	13,012
Natural gas	12,750
Dry hole	17,774

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	10,490	37%
Gas wells	4,252	15%
Dry holes	13,628	48%
Total	28,370	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	1,390	47	1,437	2,864
Production	1,166	29	1,195	2,039

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$25.29
Natural gas *($/Mcf)*	$2.39
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$752,833
Natural gas	$127,461
Total	$880,294
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$8,650,314

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	50%
Natural gas—ranked 3rd	8%
State and local severance and production taxes paid in 1985 *(thous. $)*	$44,200
Number of employees during 1985 in:	
Oil and gas extraction industry	3,357
Total petroleum industry	8,661

1985 Industry Statistics

Seismic crew months worked 43

Rotary drilling rigs active 23

Number of wells drilled:

	Exploratory	Development	Total
Oil	24	187	211
Gas	4	77	81
Dry	190	109	299
Service	—	1	1
Total	218	374	592

Total footage drilled:*

(thous. ft.)	Exploratory	Development	Total
Oil	192.6	896.9	1,089.5
Gas	6.3	145.8	152.1
Dry	1,217.9	427.5	1,645.4
Service	—	0.7	0.7
Total	1,416.7	1,471.0	2,887.7

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 189

New-field wildcat footage *(thous. ft)* 1,233.4

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	17th	16th
Production	14th	20th
Reserves (1984)	10th	18th

Number of producing wells: *(12/31/85)*

Crude oil 4,196

Natural gas 2,033

Total 6,229

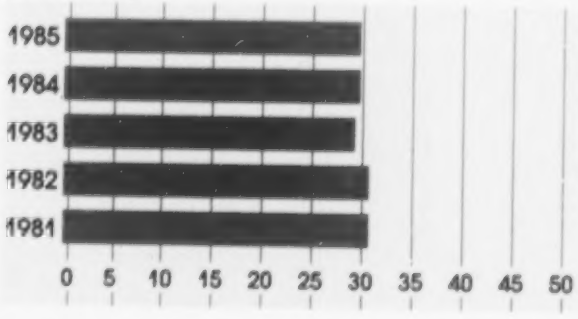
Percentage of producing oil wells on artificial lift 91%

Average production:	thous. bbls.	thous. b/d
Crude oil	29,768	82
NGL	1,000	3
Total	30,768	85

Natural gas marketed production *(MMcf)* 53,331

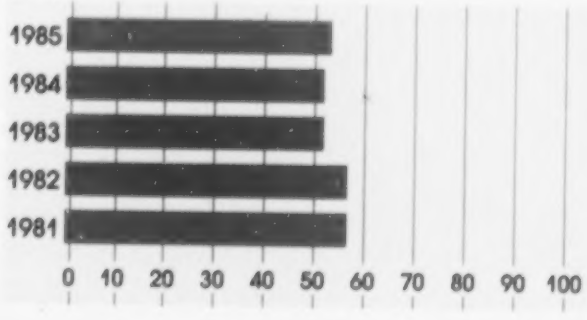
Crude Oil Production

(mill. bbls.)



Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	19	0	19
Production	29	1	30
Net annual change	–10	–1	–11
Proved reserves	224	18	242

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	–21	–27	–48
Production	10	38	48
Net annual change	–31	–65	–96
Proved reserves	77	748	825

Total estimated drilling costs $263,740,418

Cost per well $333,849

Cost per foot $67.86

Number of producing stripper wells *(12/31/84)* 3,085

Number of stripper well abandonments 430

Stripper well production *(thous. bbls.)* 2,577

Percentage of oil produced by stripper wells 9%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

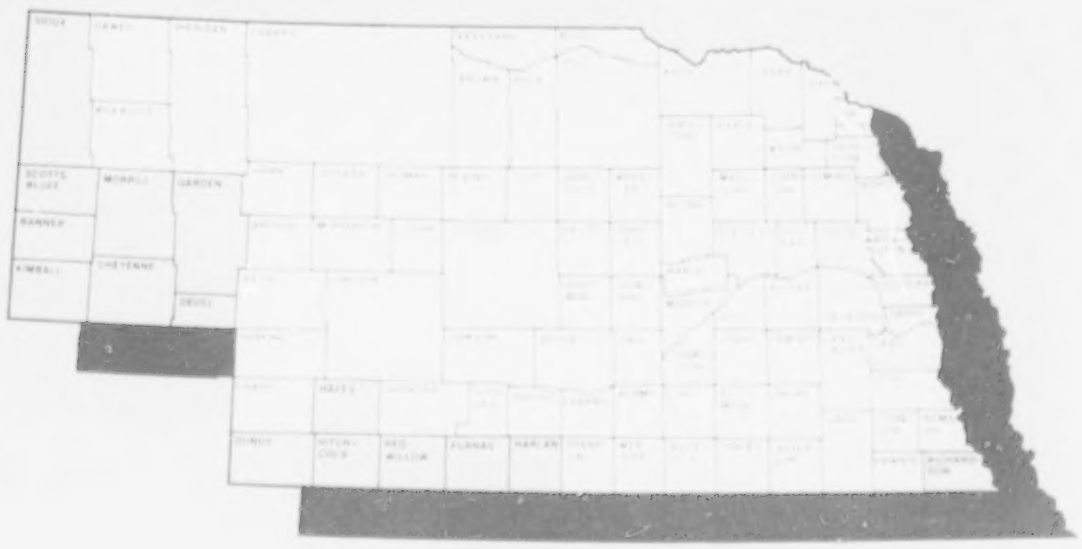
Primary 30,235

Secondary 2,275

Total 32,510

State Energy Contact

Montana Dept. of Natural Resources and Conservation
Board of Oil and Gas
P.O. Box 217
Helena, MT 59624
Ph. 406-444-6675



☐ Counties with oil and/or gas production

Background Information

Number of counties	93
With oil and/or gas production	15
Land area *(thous. acres)*	49,052
Total acreage under lease	13,508
Productive of oil and/or gas	340
Non-productive of oil and/or gas	13,168
Percentage of total land area leased	28%
Percentage of leased acreage productive of oil and/or gas	3%
First year of production:	
Crude oil	1939
Natural gas	1949
Year and amount of peak production:	
Crude oil—24,894 *thous. bbls.*	1962
Natural gas—15,743 *MMcf*	1961

Deepest well drilled: *(ft.)*	
Crude oil	7,438
Natural gas	5,832
Dry hole	9,971

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	5,185	31%
Gas wells	213	1%
Dry holes	11,464	68%
Total	16,862	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
		(mill. bbls.)		
Reserves	465	Unavailable	—	Unavailable
Production	419	Unavailable	—	Unavailable

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$25.43
Natural gas *($/Mcf)*	$3.01
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$176,560
Natural gas	$7,525
Total	$184,085
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$2,501,907

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	63%
Natural gas—ranked 4th	2%
State and local severance and production taxes paid in 1985 *(thous. $)*	$4,455
Number of employees during 1985 in	
Oil and gas extraction industry	855
Total petroleum industry	12,813

1985 Industry Statistics

Seismic crew months worked: 8

Rotary drilling rigs active: 7

Number of wells drilled:

	Exploratory	Development	Total
Oil	20	62	82
Gas	0	1	1
Dry	128	50	178
Service	—	2	2
Total	148	115	263

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	106.0	286.6	392.6
Gas	0	3.7	3.7
Dry	652.9	241.1	894.0
Service	—	12.4	12.4
Total	758.9	543.8	1,302.6

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled: 140

New-field wildcat footage *(thous. ft)*: 717.4

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	21st	26th
Production	21st	26th
Reserves (1984)	21st	—

Number of producing wells *(12/31/85)*:

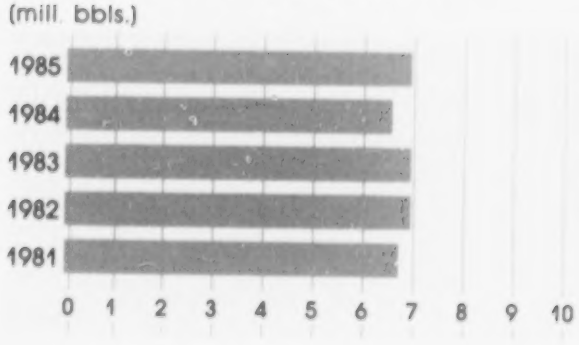
Crude oil	2,091
Natural gas	Unavailable
Total	—

Percentage of producing oil wells on artificial lift: 100%

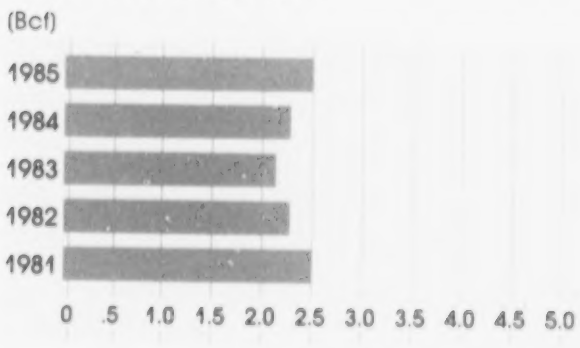
Average production:	thous. bbls.	thous. b/d
Crude oil	6,943	19
NGL	Unavailable	—
Total	—	—

Natural gas marketed production *(MMcf)*: 2,500

Crude Oil Production



Gas Production



1984 Latest Data

Petroleum reserve position as of *12/31/84*:

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	9	Unavailable	9
Production	7	Unavailable	7
Net annual change	2	—	2
Proved reserves	46	Unavailable	46

Natural gas reserve position as of *12/31/84*:

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	—	—	Unavailable
Production	—	—	—
Net annual change	—	—	—
Proved reserves	—	—	Unavailable

Total estimated drilling costs: $42,901,147

Cost per well: $123,279

Cost per foot: $25.36

Number of producing stripper wells *(12/31/84)*: 1,707

Number of stripper well abandonments: 36

Stripper well production *(thous. bbls.)*: 2,974

Percentage of oil produced by stripper wells: 54%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary	25,858
Secondary	3,709
Total	29,567

State Energy Contact

Nebraska Oil and Gas Conservation Commission
P.O. Box 399
Sidney, NB 69162
Ph. 308-254-4595

☐ Counties with oil and/or gas production

Background Information

Number of counties	16
With oil and/or gas production	2
Land area *(thous. acres)*	70,332
Total acreage under lease	28,876
Productive of oil and/or gas	5
Non-productive of oil and/or gas	29,871
Percentage of total land area leased	42%
Percentage of leased acreage productive of oil and/or gas	Less than 1%
First year of production:	
Crude oil	1954
Natural gas	Not Applicable
Year and amount of peak production:	
Crude oil—3,039 *thous. bbls.*	1985
Natural gas	Not Applicable
Deepest well drilled: *(ft.)*	
Crude oil	8,694
Natural gas	Not Applicable
Dry hole	19,562

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	46	*13%*
Gas wells	1	*0%*
Dry holes	305	*87%*
Total	352	*100%*

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL *(mill. bbls.)*	Total	Natural Gas *(Bcf)*
Reserves	Unavailable	0	—	0
Production	Unavailable	0	—	0

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$26.00
Natural gas *($/Mcf)*	Not Applicable
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$79,014
Natural gas	Not Applicable
Total	$79,014
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$225,576
Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 2nd	9%
Natural gas	Not Applicable
State and local severance and production taxes paid in 1985 *(thous. $)*	$152
Number of employees during 1985 in:	
Oil and gas extraction industry	468
Total petroleum industry	5,151

1985 Industry Statistics

Seismic crew months worked 60

Rotary drilling rigs active 5

Number of wells drilled:

	Exploratory	Development	Total
Oil	0	8	8
Gas	0	0	0
Dry	25	1	26
Service	—	0	0
Total	25	9	34

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	0	40.7	40.7
Gas	0	0	0
Dry	163.6	4.6	168.2
Service	—	0	0
Total	163.6	45.3	208.9

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 24

New-field wildcat footage *(thous. ft)* 156

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	27th	—
Production	25th	—
Reserves (1984)	—	—

Number of producing wells: *(12/31/85)*

Crude oil 45

Natural gas 0

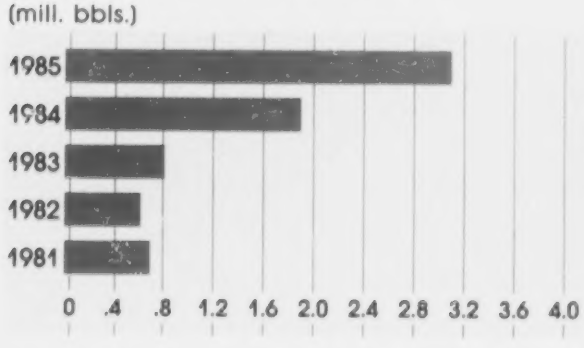
Total 45

Percentage of producing oil wells on artificial lift 91%

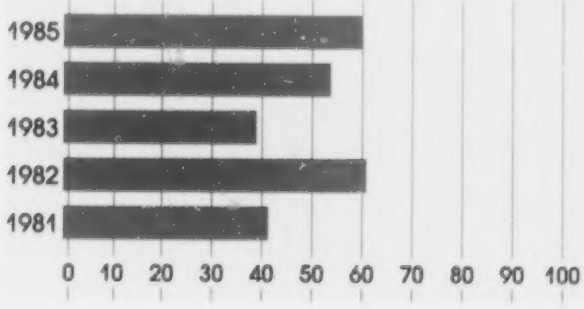
Average production:	thous. bbls.	thous. b/d
Crude oil	3,039	8
NGL	0	0
Total	3,039	8

Natural gas marketed production *(MMcf)* 0

Crude Oil Production



Seismic Crew Months



1984 Latest Data

Petroleum reserve position as of *12/31/84*:

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	Unavailable	0	—
Production	—	0	—
Net annual change	—	—	—
Proved reserves	Unavailable	0	—

Natural gas reserve position as of *12/31/84*:

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	—	—	0
Production	—	—	0
Net annual change	—	—	—
Proved reserves	—	—	0

Total estimated drilling costs ..... Unavailable

Cost per well .....

Cost per foot .....

Number of producing stripper wells *(12/31/84)* 0

Number of stripper well abandonments 0

Stripper well production *(thous. bbls.)* 0

Percentage of oil produced by stripper wells .....

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

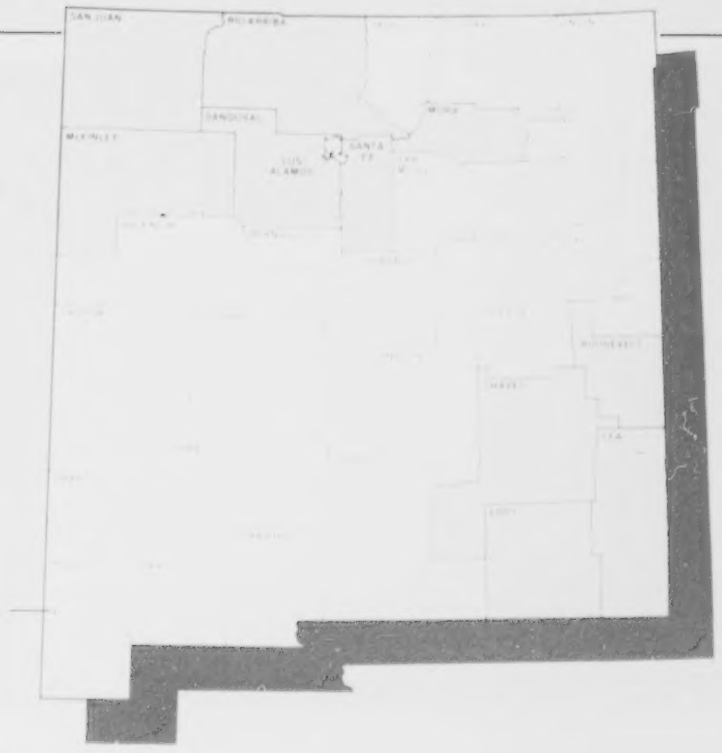
Primary 0

Secondary 0

Total 0

State Energy Contact

Nevada Department of Minerals
400 West King Street, Suite 106
Carson City, NV 89710
Ph. 702-885-5050



☐ Counties with oil and/or gas production

Background Information

Number of counties	32
With oil and/or gas production	10
Land area *(thous. acres)*	77,654
Total acreage under lease	42,688
Productive of oil and/or gas	3,878
Non-productive of oil and/or gas	38,810
Percentage of total land area leased	55%
Percentage of leased acreage productive of oil and/or gas	9%
First year of production:	
Crude oil	1911
Natural gas	1924
Year and amount of peak production:	
Crude oil—129,227 *thous. bbls.*	1969
Natural gas—1,244,779 *MMcf*	1974

Deepest well drilled: *(ft.)*	
Crude oil	17,652
Natural gas	17,544
Dry hole	22,926

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	29,342	49%
Gas wells	17,565	30%
Dry holes	12,445	21%
Total	59,352	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	5,762	1,661	7,423	48,270
Production	5,102	1,150	6,252	36,243

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$26.78
Natural gas *($/Mcf)*	$2.67
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$2,103,033
Natural gas	$2,393,137
Total	$4,496,170
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$23,684,572

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 2nd	39%
Natural gas—ranked 1st	44%
State and local severance and production taxes paid in 1985 *(thous. $)*	$365,029
Number of employees during 1985 in:	
Oil and gas extraction industry	13,554
Total petroleum industry	24,330

1985 Industry Statistics

Seismic crew months worked 63

Rotary drilling rigs active 71

Number of wells drilled:

	Exploratory	Development	Total
Oil	95	744	839
Gas	53	518	571
Dry	133	151	284
Service	—	21	21
Total	281	1,434	1,715

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	696.5	4,442.9	5,139.5
Gas	327.3	3,255.1	3,582.4
Dry	690.3	981.7	1,672.0
Service	—	83.9	83.9
Total	1,714.1	8,763.6	10,477.8

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 128

New-field wildcat footage *(thous. ft)* 645.5

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	10th	7th
Production	7th	4th
Reserves (1984)	7th	5th

Number of producing wells: *(12/31/85)*

Crude oil	18,697
Natural gas	16,447
Total	35,144

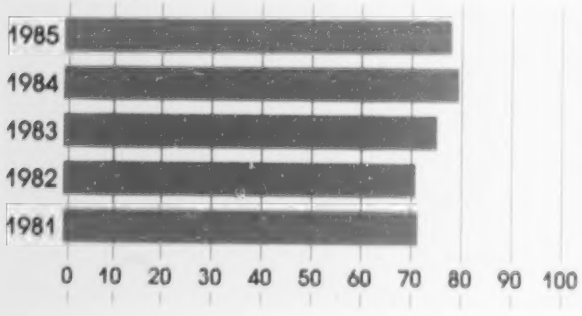
Percentage of producing oil wells on artificial lift 82%

Average production:	thous. bbls.	thous. b/d
Crude oil	78,530	215
NGL	35,000	96
Total	113,530	311

Natural gas marketed production *(MMcf)* 896,306

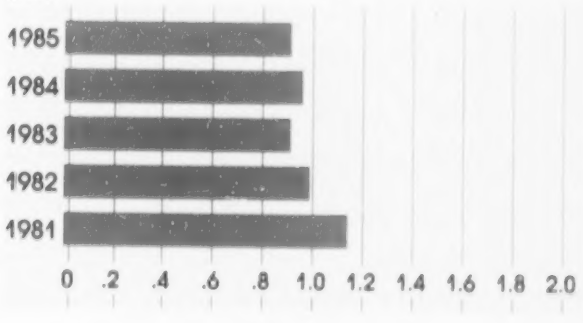
Crude Oil Production

(mill. bbls.)



Gas Production

(Tcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	156	7	163
Production	72	47	119
Net annual change	84	−40	44
Proved reserves	660	511	1,171

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	259	314	573
Production	193	724	917
Net annual change	66	−410	−344
Proved reserves	1,569	10,458	12,027

Total estimated drilling costs $643,592,445

Cost per well $410,716

Cost per foot $66.16

Number of producing stripper wells *(12/31/84)* 14,749

Number of stripper well abandonments 644

Stripper well production *(thous. bbls.)* 15,016

Percentage of oil produced by stripper wells 20%

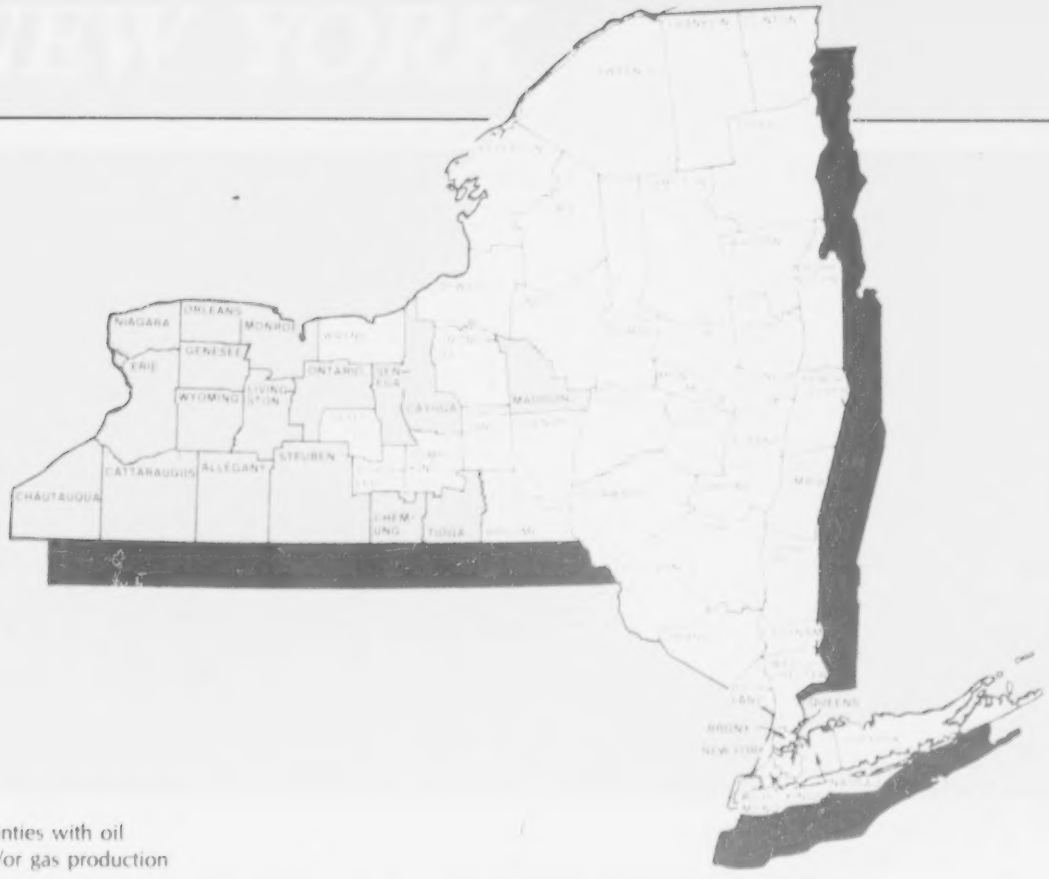
Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary	83,650
Secondary	35,850
Total	119,500

State Energy Contact

New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501
Ph. 505-827-5800

NEW YORK



☐ Counties with oil and/or gas production

Background Information

Number of counties	62
With oil and/or gas production	19
Land area *(thous. acres)*	30,321
Total acreage under lease	5,610
Productive of oil and/or gas	2,010
Non-productive of oil and/or gas	3,600
Percentage of total land area leased	19%
Percentage of leased acreage productive of oil and/or gas	36%
First year of production:	
Crude oil	1865
Natural gas	1885
Year and amount of peak production:	
Crude oil—6,685 *thous. bbls.*	1882
Natural gas—39,402 *MMcf*	1938

Deepest well drilled: *(ft.)*	
Crude oil	4,634
Natural gas	5,425
Dry hole	13,500

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	9,232	64%
Gas wells	4,096	29%
Dry holes	1,041	7%
Total	14,369	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	Unavailable	Unavailable	—	1,025
Production	Unavailable	Unavailable	—	636

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$25.19
Natural gas *($/Mcf)*	$3.37
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$26,978
Natural gas	$105,767
Total	$132,745
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$979,562

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 5th	3%
Natural gas—ranked 3rd	14%
State and local severance and production taxes paid in 1985 *(thous. $)*	Not Applicable
Number of employees during 1985 in:	
Oil and gas extraction industry	2,582
Total petroleum industry	56,985

1985 Industry Statistics

Seismic crew months worked 9

Rotary drilling rigs active 5

Number of wells drilled:

	Exploratory	Development	Total
Oil	0	81	81
Gas	10	283	293
Dry	8	13	21
Service	—	0	0
Total	18	377	395

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	0	134.1	134.1
Gas	21.7	690.7	712.4
Dry	25.8	37.6	63.4
Service	—	0	0
Total	47.5	862.3	909.8

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 6

New-field wildcat footage *(thous. ft)* 20.2

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	22nd	11th
Production	27th	21st
Reserves (1984)	—	21st

Number of producing wells: *(12/31/85)*

Crude oil 4,811

Natural gas 4,324

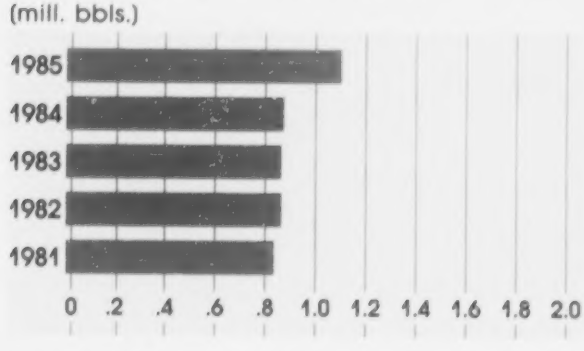
Total 9,135

Percentage of producing oil wells on artificial lift 99%

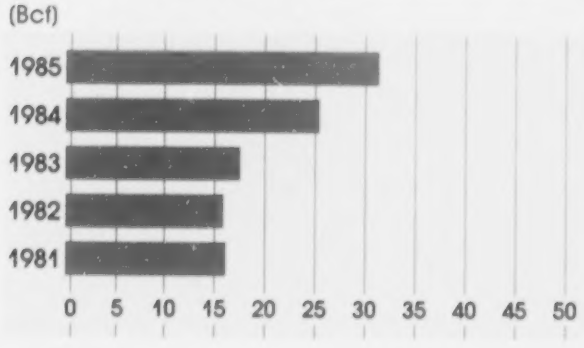
Average production:	thous. bbls.	thous. b/d
Crude oil	1,071	3
NGL	Unavailable	—
Total	—	—

Natural gas marketed production *(MMcf)* 31,385

Crude Oil Production



Gas Production



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	Unavailable	Unavailable	—
Production	—	—	—
Net annual change	—	—	—
Proved reserves	Unavailable	Unavailable	—

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	2	110	112
Production	0	18	18
Net annual change	2	92	94
Proved reserves	2	387	389

Total estimated drilling costs ..... Unavailable

Cost per well .....

Cost per foot .....

Number of producing stripper wells *(12/31/84)* 4,532

Number of stripper well abandonments 140

Stripper well production *(thous. bbls.)* 680

Percentage of oil produced by stripper wells 71%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

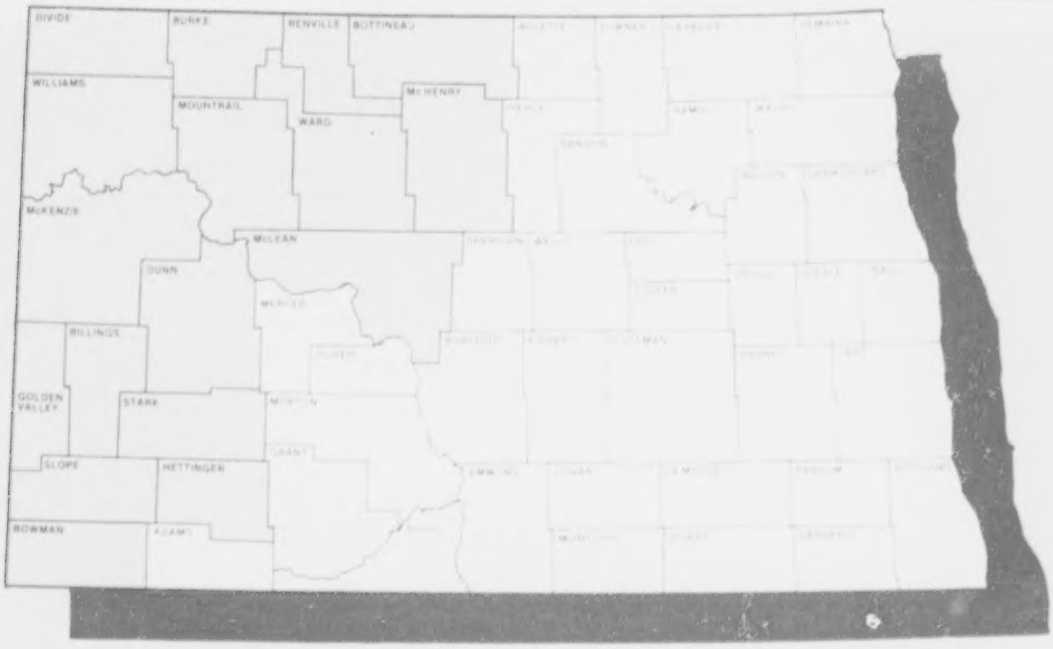
Primary 912

Secondary 7,991

Total 8,903

State Energy Contact

New York Energy Office
Department of Oil and Gas
2 Rockefeller Plaza
Albany, NY 12223
Ph. 518-474-2121



☐ Counties with oil and/or gas production

Background Information

Number of counties	53
With oil and/or gas production	17
Land area *(thous. acres)*	44,352
Total acreage under lease	23,324
Productive of oil and/or gas	658
Non-productive of oil and/or gas	22,666
Percentage of total land area leased	53%
Percentage of leased acreage productive of oil and/or gas	3%
First year of production:	
Crude oil	1951
Natural gas	1907
Year and amount of peak production:	
Crude oil—52,652 *thous. bbls.*	1984
Natural gas—78,263 *MMcf*	1985

Deepest well drilled: *(ft.)*	
Crude oil	15,380
Natural gas	14,636
Dry hole	Unavailable

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	5,308	51%
Gas wells	100	1%
Dry holes	5,088	48%
Total	10,496	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	1,040	157	1,197	1,786
Production	780	84	864	1,143

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$25.32
Natural gas *($/Mcf)*	$1.90
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$1,287,699
Natural gas	$148,700
Total	$1,436,399
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$10,826,841

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	79%
Natural gas—ranked 3rd	8%
State and local severance and production taxes paid in 1985 *(thous. $)*	$136,200
Number of employees during 1985 in:	
Oil and gas extraction industry	5,137
Total petroleum industry	11,521

1985 Industry Statistics

Seismic crew months worked	79
Rotary drilling rigs active	39

Number of wells drilled:

	Exploratory	Development	Total
Oil	58	184	242
Gas	2	2	4
Dry	152	87	239
Service	—	0	0
Total	212	273	485

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	589.6	1,673.7	2,263.3
Gas	27.6	27.5	55.1
Dry	1,306.7	733.1	2,039.8
Service	—	0	0
Total	1,923.9	2,434.3	4,358.2

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled	129
New-field wildcat footage *(thous. ft)*	1,078.1

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	15th	24th
Production	9th	17th
Reserves (1984)	9th	20th

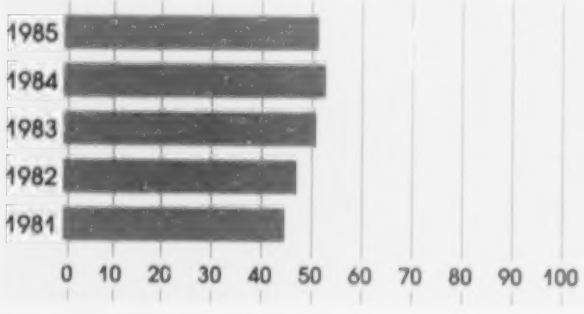
Number of producing wells: *(12/31/85)*	
Crude oil	3,697
Natural gas	98
Total	3,795
Percentage of producing oil wells on artificial lift	75%

Average production:	thous. bbls.	thous. b/d
Crude oil	50,857	139
NGL	5,000	14
Total	55,857	153

Natural gas marketed production *(MMcf)*	78,263

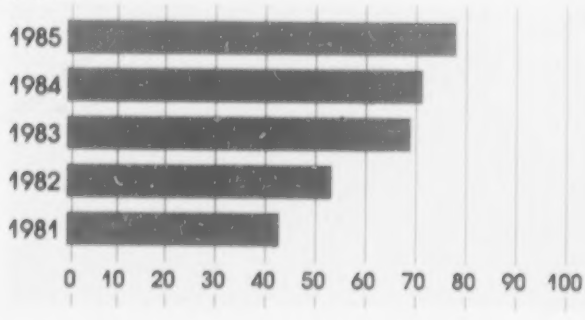
Crude Oil Production

(mill. bbls.)



Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	51	11	62
Production	49	7	56
Net annual change	2	4	6
Proved reserves	260	73	333

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	62	–26	36
Production	52	14	66
Net annual change	10	–40	–30
Proved reserves	267	376	643

Total estimated drilling costs	$421,894,533
Cost per well	$616,805
Cost per foot	$69.81

Number of producing stripper wells *(12/31/84)*	1,016
Number of stripper well abandonments	12
Stripper well production *(thous. bbls.)*	1,756
Percentage of oil produced by stripper wells	3%
Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*	
Primary	35,325
Secondary	27,775
Total	63,100

State Energy Contact

North Dakota Industrial Commission
Oil and Gas Division
Capitol Building
Bismarck, ND 58505
Ph. 701-224-2969

OHIO

☐ Counties with oil and/or gas production

Background Information

Number of counties	88
With oil and/or gas production	68
Land area *(thous. acres)*	26,243
Total acreage under lease	14,886
Productive of oil and/or gas	3,420
Non-productive of oil and/or gas	11,466
Percentage of total land area leased	57%
Percentage of leased acreage productive of oil and/or gas	23%
First year of production:	
Crude oil	1860
Natural gas	1884
Year and amount of peak production:	
Crude oil—23,941 *thous. bbls.*	1896
Natural gas—190,000 *MMcf*	1985

Deepest well drilled: *(ft.)*	
Crude oil	7,805
Natural gas	8,488
Dry hole	11,442

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	72,661	46%
Gas wells	49,034	31%
Dry holes	36,461	23%
Total	158,156	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	1,037	8	1,045	7,814
Production	921	8	929	6,272

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$25.11
Natural gas *($/Mcf)*	$3.05
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$376,349
Natural gas	$579,500
Total	$955,849
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$4,823,369

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 3rd	15%
Natural gas—ranked 2nd	21%
State and local severance and production taxes paid in 1985 *(thous. $)*	$5,752
Number of employees during 1985 in:	
Oil and gas extraction industry	10,823
Total petroleum industry	60,690

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked 9

Rotary drilling rigs active 29

Number of wells drilled:

	Exploratory	Development	Total
Oil	16	2,224	2,240
Gas	25	968	993
Dry	37	143	180
Service	—	7	7
Total	78	3,342	3,420

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	62.3	8,492.5	8,554.8
Gas	98.2	3,977.1	4,075.2
Dry	110.6	410.9	521.5
Service	—	25.1	25.1
Total	271.1	12,905.6	13,176.6

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 20

New-field wildcat footage *(thous. ft)* 58.9

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	5th	5th
Production	18th	9th
Reserves (1984)	16th	14th

Number of producing wells: *(12/31/85)*

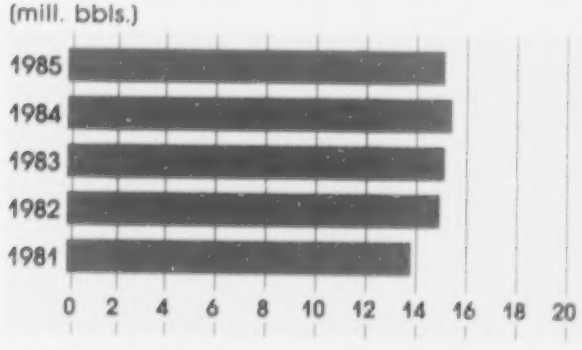
Crude oil	27,975
Natural gas	32,148
Total	60,123

Percentage of producing oil wells on artificial lift 98%

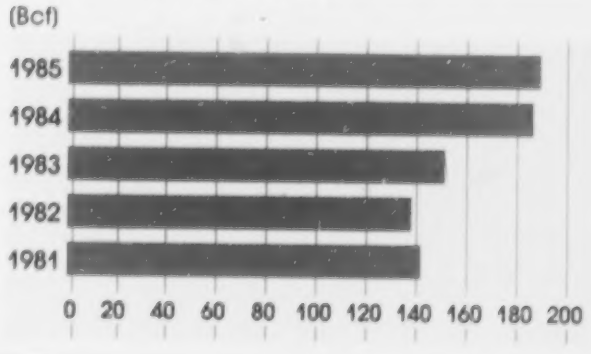
Average production:	thous. bbls.	thous. b/d
Crude oil	14,988	41
NGL	Unavailable	—
Total	—	—

Natural gas marketed production *(MMcf)* 190,000

Crude Oil Production



Gas Production



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	1	Unavailable	1
Production	15	—	15
Net annual change	–14	—	–14
Proved reserves	116	Unavailable	116

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	–339	19	–320
Production	118	51	169
Net annual change	–457	–32	–489
Proved reserves	1,178	364	1,542

Total estimated drilling costs ..... Unavailable

Cost per well .....

Cost per foot .....

Number of producing stripper wells *(12/31/84)* 25,129

Number of stripper well abandonments 354

Stripper well production *(thous. bbls.)* 10,690

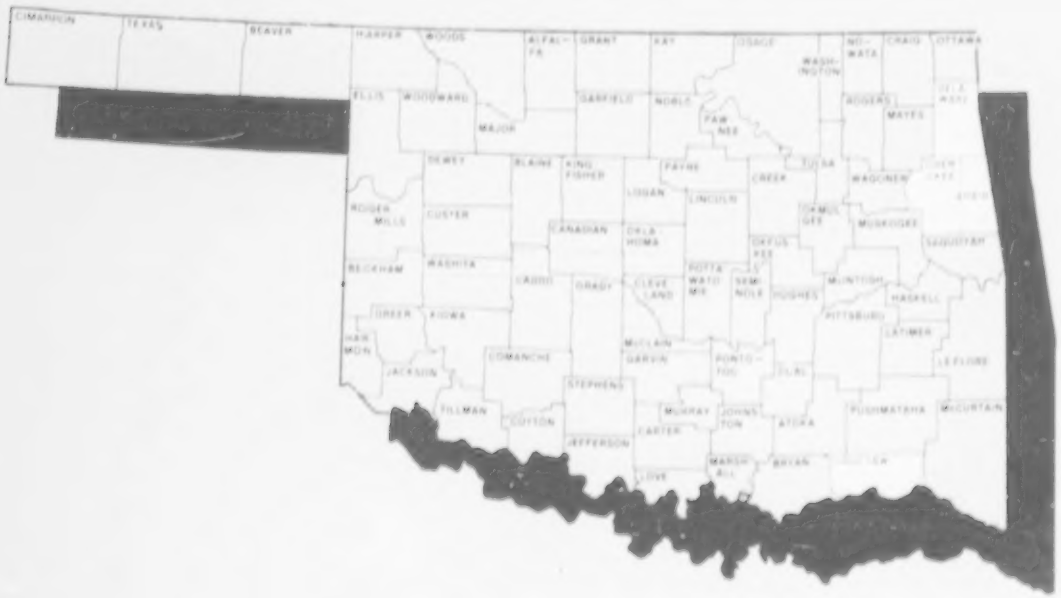
Percentage of oil produced by stripper wells 70%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary	88,064
Secondary	292
Total	88,356

State Energy Contact

Ohio Department of Natural Resources
Division of Oil and Gas
Fountain Square, Building A
Columbus, OH 43224
Ph. 614-265-6917



☐ Counties with oil and/or gas production

Background Information

Number of counties	77
With oil and/or gas production	73
Land area *(thous. acres)*	43,939
Total acreage under lease	20,435
Productive of oil and/or gas	7,675
Non-productive of oil and/or gas	12,760
Percentage of total land area leased	47%
Percentage of leased acreage productive of oil and/or gas	38%
First year of production:	
Crude oil	1891
Natural gas	1902
Year and amount of peak production:	
Crude oil—277,775 *thous. bbls.*	1927
Natural gas—2,019,199 *MMcf*	1981

Deepest well drilled: *(ft.)*	
Crude oil	22,850
Natural gas	24,969
Dry hole	31,441

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	228,053	60%
Gas wells	43,763	11%
Dry holes	109,642	29%
Total	381,458	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	13,477	3,464	16,941	76,558
Production	12,537	2,695	15,232	59,456

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$26.27
Natural gas *($/Mcf)*	$2.47
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$4,275,154
Natural gas	$4,415,705
Total	$8,690,859
Cumulative crude wellhead value as of 12/31/85: *(thous. $)*	$61,325,895

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 2nd	46%
Natural gas—ranked 1st	51%
State and local severance and production taxes paid in 1985 *(thous. $)*	$709,364
Number of employees during 1985 in:	
Oil and gas extraction industry	63,288
Total petroleum industry	89,826

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked 202

Rotary drilling rigs active 252

Number of wells drilled:

	Exploratory	Development	Total
Oil	49	3,509	3,558
Gas	36	1,357	1,393
Dry	300	1,727	2,027
Service	—	66	66
Total	385	6,659	7,044

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	303.1	15,585.8	15,888.9
Gas	367.4	9,145.3	9,512.7
Dry	1,635.3	8,877.6	10,512.9
Service	—	167.2	167.2
Total	2,305.8	33,775.9	36,081.7

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 129

New-field wildcat footage *(thous. ft.)* 703.1

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	2nd	3rd
Production	5th	3rd
Reserves (1984)	6th	4th

Number of producing wells *(12/31/85)*:

Crude oil	103,000
Natural gas	24,500
Total	127,500

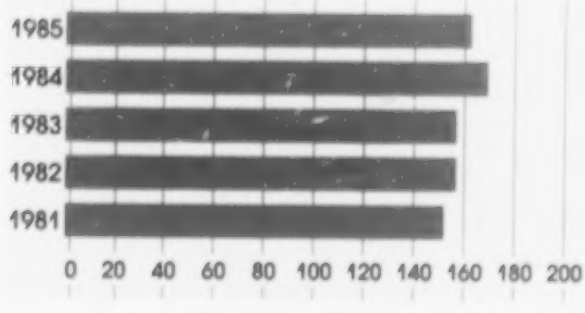
Percentage of producing oil wells on artificial lift 95%

Average production	thous. bbls.	thous. b/d
Crude oil	162,739	446
NGL	65,000	178
Total	227,739	624

Natural gas marketed production *(MMcf)* 1,787,745

Crude Oil Production

(mill. bbls.)



Gas Production

(Tcf)

1984 Latest Data

Petroleum reserve position as of *12/31/84*:

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	156	26	182
Production	147	86	233
Net annual change	9	−60	−51
Proved reserves	940	769	1,709

Natural gas reserve position as of *12/31/84*:

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	343	1,383	1,726
Production	368	1,517	1,885
Net annual change	−25	−134	−159
Proved reserves	2,244	14,858	17,102

Total estimated drilling costs $2,795,220,222

Cost per well $311,341

Cost per foot $63.17

Number of producing stripper wells *(12/31/84)* 82,431

Number of stripper well abandonments 1,491

Stripper well production *(thous. bbls.)* 94,046

Percentage of oil produced by stripper wells 60%

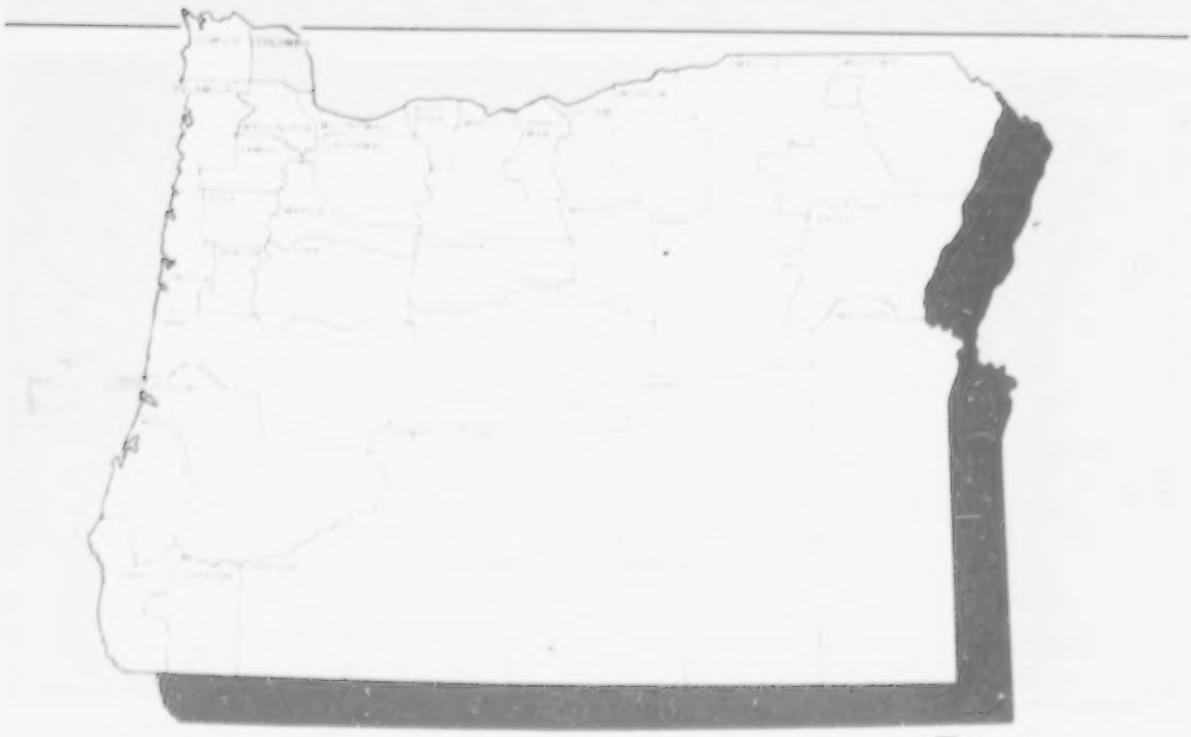
Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary	281,100
Secondary	325,630
Total	606,730

State Energy Contact

Oklahoma Corporation Commission
Oil and Gas Division
Jim Thorpe Building
Oklahoma City, OK 73105
Ph. 405-521-2301

OREGON



☐ Counties with oil and/or gas production

Background Information

Number of counties	36
With oil and/or gas production	1
Land area *(thous. acres)*	61,558
Total acreage under lease	4,460
Productive of oil and/or gas	60
Non-productive of oil and/or gas	4,400
Percentage of total land area leased	7%
Percentage of leased acreage productive of oil and/or gas	1%
First year of production:	
Crude oil	Not Applicable
Natural gas	1979
Year and amount of peak production:	
Crude oil	Not Applicable
Natural gas—5,000 *MMcf*	1980/1981
Deepest well drilled: *(ft.)*	
Crude oil	Not Applicable
Natural gas	3,027
Dry hole	13,177

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	0	0%
Gas wells	19	6%
Dry holes	300	94%
Total	119	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	0	Unavailable	—	40
Production	0	Unavailable	—	19

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	Not Applicable
Natural gas *($/Mcf)*	$2.60
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	Not Applicable
Natural gas	$7,800
Total	$7,800
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	Not Applicable
Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil	Not Applicable
Natural gas—ranked 3rd	6%
State and local severance and production taxes paid in 1985 *(thous. $)*	$429
Number of employees during 1985 in:	
Oil and gas extraction industry	158
Total petroleum industry	11,998

1985 Industry Statistics

Seismic crew months worked	19
Rotary drilling rigs active	1

Number of wells drilled:

	Exploratory	Development	Total
Oil	0	0	0
Gas	2	1	3
Dry	1	1	2
Service	—	0	0
Total	3	2	5

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	0	0	0
Gas	5.6	2.0	7.6
Dry	3.5	2.5	6.0
Service	—	0	0
Total	9.1	4.5	13.6

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled	1
New-field wildcat footage *(thous. ft)*	3.5

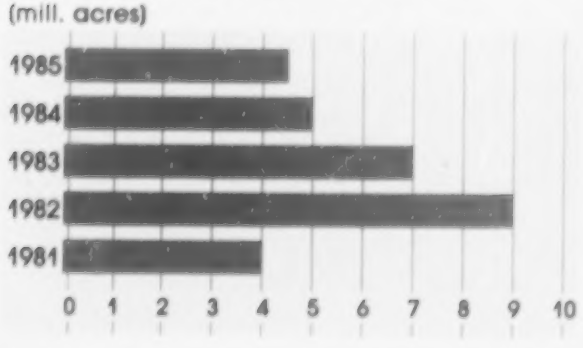
State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	—	25th
Production	—	25th
Reserves (1984)	—	—

Number of producing wells: *(12/31/85)*	
Crude oil	0
Natural gas	Unavailable
Total	
Percentage of producing oil wells on artificial lift	

Average production:	thous. bbls.	thous. bcf
Crude oil	0	—
NGL	0	—
Total	0	—

Natural gas marketed production *(MMcf)*	1,000

Acreage Under Lease



Gas Production

1984 Latest Data

Petroleum reserve position as of *12/31/84*:

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	0	0	—
Production	0	0	—
Net annual change	—	—	—
Proved reserves	0	0	—

Natural gas reserve position as of *12/31/84*:

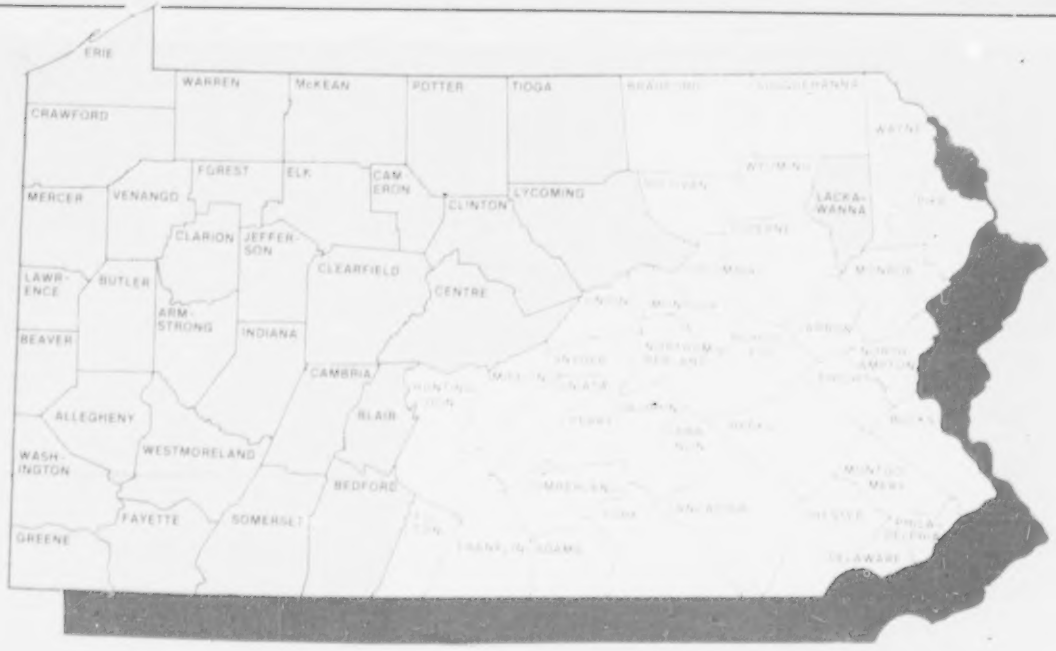
(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	—	—	Unavailable
Production	—	—	—
Net annual change	—	—	—
Proved reserves	—	—	Unavailable

Total estimated drilling costs	Unavailable
Cost per well	
Cost per foot	

Number of producing stripper wells *(12/31/84)*	0
Number of stripper well abandonments	0
Stripper well production *(thous. bbls.)*	0
Percentage of oil produced by stripper wells	
Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*	
Primary	0
Secondary	0
Total	0

State Energy Contact

Oregon Department of Geology and Mineral Industries
1005 State Office Building
Portland, OR 97201
Ph. 503-229-5580



☐ Counties with oil and/or gas production

Background Information

Number of counties	67
With oil and/or gas production	32
Land area *(thous. acres)*	28,728
Total acreage under lease	18,042
Productive of oil and/or gas	3,200
Non-productive of oil and/or gas	14,842
Percentage of total land area leased	63%
Percentage of leased acreage productive of oil and/or gas	18%
First year of production:	
Crude oil	1859
Natural gas	1881
Year and amount of peak production:	
Crude oil—31,424 *thous. bbls.*	1891
Natural gas—180,000 *MMcf*	1985

Deepest well drilled: *(ft.)*	
Crude oil	8,484
Natural gas	19,365
Dry hole	21,460

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	248,695	79%
Gas wells	28,701	9%
Dry holes	38,387	12%
Total	315,783	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas
	(mill. bbls.)			*(Bcf)*
Reserves	1,350	15	1,365	11,415
Production	1,310	15	1,325	9,839

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$25.05
Natural gas *($/Mcf)*	$2.85
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$121,518
Natural gas	$513,000
Total	$634,518
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$3,861,468

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 5th	3%
Natural gas—ranked 2nd	14%
State and local severance and production taxes paid in 1985 *(thous. $)*	Not Applicable
Number of employees during 1985 in:	
Oil and gas extraction industry	5,600
Total petroleum industry	61,000

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked	17
Rotary drilling rigs active	30

Number of wells drilled:

	Exploratory	Development	Total
Oil	1	982	983
Gas	32	1,384	1,416
Dry	26	41	67
Service	—	28	28
Total	59	2,435	2,494

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	0.9	1,320.4	1,321.3
Gas	169.1	5,502.7	5,671.7
Dry	160.0	131.0	291.0
Service	—	60.2	60.2
Total	330.0	7,014.3	7,344.3

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled	24
New-field wildcat footage *(thous. ft)*	147.9

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	8th	2nd
Production	23rd	11th
Reserves (1984)	23rd	13th

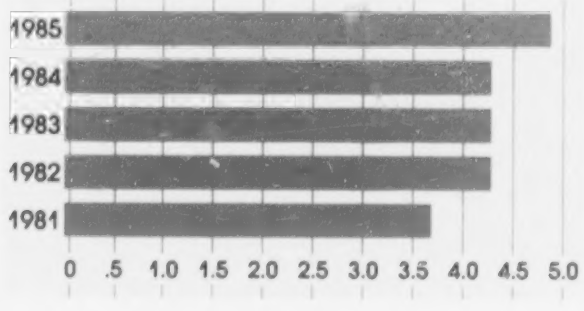
Number of producing wells: *(12/31/85)*	
Crude oil	24,000
Natural gas	24,000
Total	48,000
Percentage of producing oil wells on artificial lift	100%

Average production:	thous. bbls	thous. b/d
Crude oil	4,851	13
NGL	Unavailable	—
Total	—	—

Natural gas marketed production *(MMcf)*	180,000

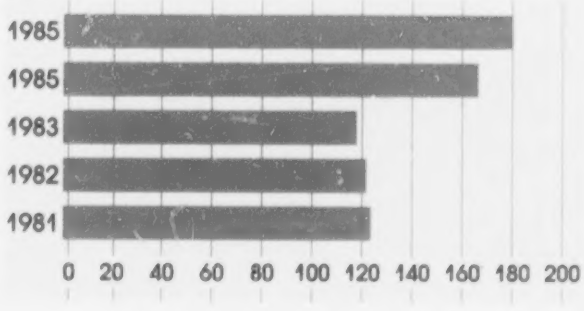
Crude Oil Production

(mill. bbls.)



Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84*:

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	2	Unavailable	2
Production	3	—	3
Net annual change	–1	—	–1
Proved reserves	40	Unavailable	40

Natural gas reserve position as of *12/31/84*:

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	64	–236	–172
Production	7	127	134
Net annual change	57	–363	–306
Proved reserves	78	1,498	1,576

Total estimated drilling costs	Unavailable
Cost per well	
Cost per foot	

Number of producing stripper wells *(12/31/84)*	19,540
Number of stripper well abandonments	848
Stripper well production *(thous. bbls.)*	4,242
Percentage of oil produced by stripper wells	88%
Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*	
Primary	19,952
Secondary	37,906
Total	57,858

State Energy Contact

Pennsylvania Department of Environmental Resources
Oil and Gas Division
P.O. Box 2063
Harrisburg, PA 17120
Ph. 717-787-2814

SOUTH DAKOTA

☐ Counties with oil and/or gas production

Background Information

Number of counties	67
With oil and/or gas production	4
Land area *(thous. acres)*	48,609
Total acreage under lease	8,123
Productive of oil and/or gas	37
Non-productive of oil and/or gas	8,086
Percentage of total land area leased	17%
Percentage of leased acreage productive of oil and/or gas	Less than 1%
First year of production:	
Crude oil	1953
Natural gas	1899
Year and amount of peak production:	
Crude oil—1,596 *thous. bbls.*	1985
Natural gas—2,500 *MMcf*	1985

Deepest well drilled: *(ft.)*	
Crude oil	9,150
Natural gas	3,550
Dry hole	9,771

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	207	19%
Gas wells	72	6%
Dry holes	825	75%
Total	1,104	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL *(mill. bbls.)*	Total	Natural Gas *(Bcf)*
Reserves	Unavailable	Unavailable	—	Unavailable
Production	Unavailable	Unavailable	—	Unavailable

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$25.80
Natural gas *($/Mcf)*	$2.50
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$41,177
Natural gas	$6,250
Total	$47,427
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$264,933

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 2nd	16%
Natural gas—ranked 7th	3%
State and local severance and production taxes paid in 1985 *(thous. $)*	$1,824
Number of employees during 1985 in:	
Oil and gas extraction industry	134
Total petroleum industry	4,506

1985 Industry Statistics

Seismic crew months worked 0

Rotary drilling rigs active 2

Number of wells drilled:

	Exploratory	Development	Total
Oil	2	18	20
Gas	1	2	3
Dry	14	7	21
Service	—	2	2
Total	17	29	46

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	12.5	130.5	143.0
Gas	1.3	2.7	4.0
Dry	48.8	53.3	102.1
Service	—	7.0	7.0
Total	62.6	193.5	256.1

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 15

New-field wildcat footage *(thous. ft)* 52.8

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	25th	25th
Production	26th	26th
Reserves (1984)	—	—

Number of producing wells: *(12/31/85)*

Crude oil 165

Natural gas 42

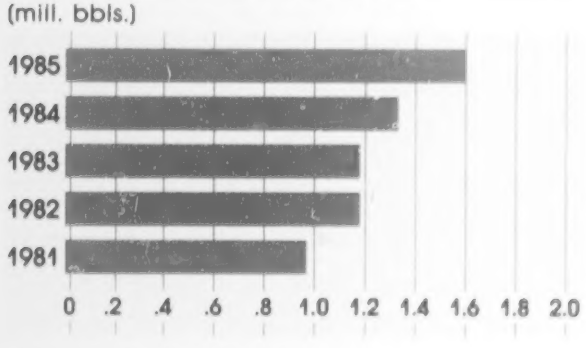
Total 207

Percentage of producing oil wells on artificial lift 100%

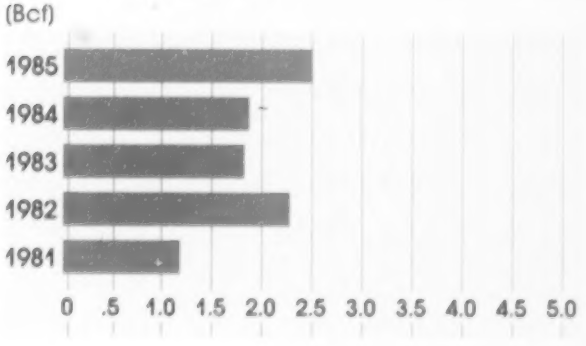
Average production:	thous. bbls.	thous. b/d
Crude oil	1,596	4
NGL	0	0
Total	1,596	4

Natural gas marketed production *(MMcf)* 2,500

Crude Oil Production



Gas Production



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	Unavailable	0	—
Production	—	0	—
Net annual change	—	—	—
Proved reserves	Unavailable	0	—

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	—	—	Unavailable
Production	—	—	—
Net annual change	—	—	—
Proved reserves	—	—	Unavailable

Total estimated drilling costs ..... Unavailable

Cost per well .....

Cost per foot .....

Number of producing stripper wells *(12/31/84)* 30

Number of stripper well abandonments 4

Stripper well production *(thous. bbls.)* 82

Percentage of oil produced by stripper wells 6%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

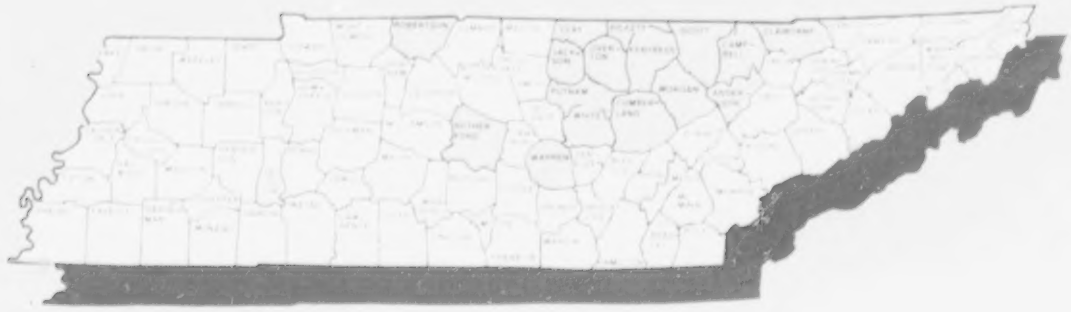
Primary 150

Secondary 300

Total 450

State Energy Contact

South Dakota Geological Survey
University of South Dakota
Science Center
Vermillion, SD 57069
Ph. 605-677-5227



☐ Counties with oil and/or gas production

Background Information

Number of counties	95
With oil and/or gas production	16
Land area *(thous. acres)*	26,339
Total acreage under lease	3,115
Productive of oil and/or gas	18
Non-productive of oil and/or gas	3,097
Percentage of total land area leased	12%
Percentage of leased acreage productive of oil and/or gas	Less than 1%
First year of production:	
Crude oil	1860
Natural gas	1889
Year and amount of peak production:	
Crude oil—1,132 *thous. bbls.*	1982
Natural gas—5,022 *MMcf*	1984

Deepest well drilled: *(ft.)*	
Crude oil	10,141
Natural gas	4,624
Dry hole	11,540

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	1,523	28%
Gas wells	1,396	25%
Dry holes	2,617	47%
Total	5,536	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	Unavailable	Unavailable	—	Unavailable
Production	Unavailable	Unavailable	—	Unavailable

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$27.50
Natural gas *($/Mcf)*	$2.40
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$21,615
Natural gas	$12,000
Total	$33,615
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$232,938

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 6th	4%
Natural gas—ranked 8th	2%
State and local severance and production taxes paid in 1985 *(thous. $)*	$980
Number of employees during 1985 in:	
Oil and gas extraction industry	422
Total petroleum industry	19,346

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked 4

Rotary drilling rigs active 0

Number of wells drilled:

	Exploratory	Development	Total
Oil	18	32	50
Gas	33	38	71
Dry	43	5	48
Service	—	0	0
Total	94	75	169

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	28.3	51.5	79.7
Gas	45.9	57.9	103.8
Dry	54.3	7.0	61.3
Service	—	0	0
Total	128.4	116.4	244.9

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 86

New-field wildcat footage *(thous. ft)* 118.6

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	24th	17th
Production	28th	24th
Reserves (1984)	Unavailable	Unavailable

Number of producing wells: *(12/31/85)*

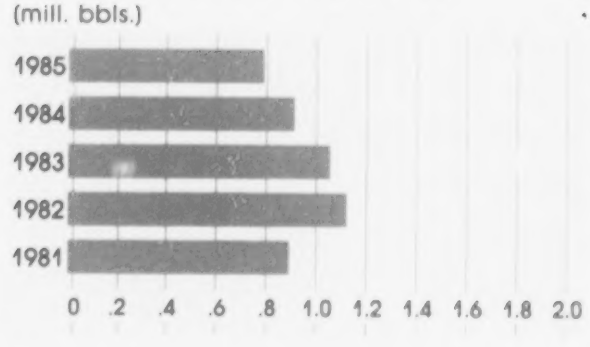
Crude oil	798
Natural gas	820
Total	1,618

Percentage of producing oil wells on artificial lift 83%

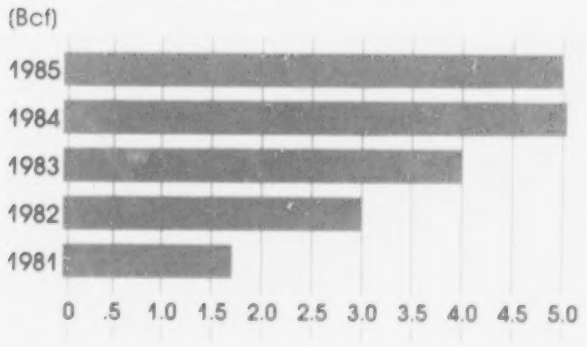
Average production:	thous. bbls.	thous. b/d
Crude oil	786	2
NGL	—	—
Total	—	—

Natural gas marketed production *(MMcf)* 5,000

Crude Oil Production



Gas Production



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	Unavailable	Unavailable	—
Production	—	Unavailable	—
Net annual change	—	—	—
Proved reserves	Unavailable	Unavailable	—

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	—	—	Unavailable
Production	—	—	—
Net annual change	—	—	—
Proved reserves	—	—	Unavailable

Total estimated drilling costs ..... Unavailable

Cost per well .....

Cost per foot .....

Number of producing stripper wells *(12/31/84)* 689

Number of stripper well abandonments 0

Stripper well production *(thous. bbls.)* 510

Percentage of oil produced by stripper wells 54%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary	970
Secondary	155
Total	1,125

State Energy Contact

Tennessee Department of Conservation
Oil and Gas Division
701 Broadway Street
Nashville, TN 37203
Ph. 615-742-6694

☐ Counties with oil and/or gas production

Background Information

Number of counties	254
With oil and/or gas production	215
Land area *(thous. acres)*	167,691
Total acreage under lease	60,670
Productive of oil and/or gas	14,640
Non-productive of oil and/or gas	46,030
Percentage of total land area leased	36%
Percentage of leased acreage productive of oil and/or gas	24%
First year of production:	
Crude oil	1889
Natural gas	1889
Year and amount of peak production:	
Crude oil—1,301,685 *thous. bbls.*	1972
Natural gas—8,657,840 *MMcf*	1972
Deepest well drilled: *(ft.)*	
Crude oil	28,500
Natural gas	26,536
Dry hole	29,670

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	485,179	59%
Gas wells	72,837	9%
Dry holes	269,843	32%
Total	827,859	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas
	(mill. bbls.)			*(Bcf)*
Reserves	64,125	13,788	77,913	309,498
Production	56,568	10,741	67,309	255,848

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$26.80
Natural gas *($/Mcf)*	$2.32
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$23,820,671
Natural gas	$13,947,436
Total	$37,768,107
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$312,641,476
Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	60%
Natural gas—ranked 2nd	35%
State and local severance and production taxes paid in 1985 *(thous. $)*	$2,163,018
Number of employees during 1985 in:	
Oil and gas extraction industry	249,098
Total petroleum industry	379,631

1985 Industry Statistics

Seismic crew months worked 932

Rotary drilling rigs active 680

Number of wells drilled:

	Exploratory	Development	Total
Oil	575	12,607	13,182
Gas	633	2,230	2,863
Dry	2,873	3,817	6,690
Service	—	834	834
Total	4,081	19,488	23,569

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	3,672.2	56,493.7	60,165.9
Gas	5,068.8	16,374.6	21,443.4
Dry	17,582.4	15,783.0	33,365.4
Service	—	3,114.8	3,114.8
Total	26,323.4	91,766.2	118,089.5

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 1,435

New-field wildcat footage *(thous. ft)* 10,689.0

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	1st	1st
Production	1st	1st
Reserves (1984)	2nd	1st

Number of producing wells: *(12/31/85)*

Crude oil 209,040

Natural gas 46,615

Total 255,655

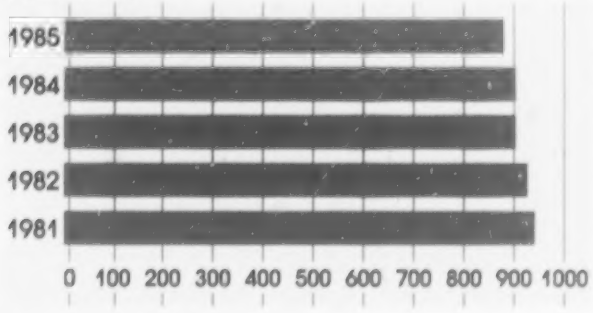
Percentage of producing oil wells on artificial lift 92%

Average production:	thous. bbls.	thous. b/d
Crude oil	888,831	2,435
NGL	255,000	699
Total	1,143,831	3,134

Natural gas marketed production *(MMcf)* 6,011,826

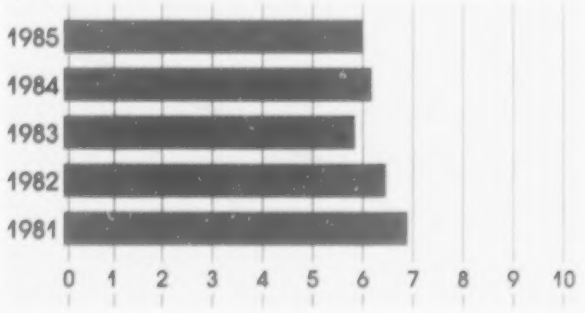
Crude Oil Production

(mill. bbls.)



Gas Production

(Tcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84*:

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	858	347	1,205
Production	840	337	1,177
Net annual change	18	10	28
Proved reserves	7,557	3,048	10,605

Natural gas reserve position as of *12/31/84*:

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	1,070	4,861	5,931
Production	1,252	4,832	6,084
Net annual change	-182	29	-153
Proved reserves	10,791	42,859	53,650

Total estimated drilling costs $8,594,510,396

Cost per well $334,521

Cost per foot $66.96

Number of producing stripper wells *(12/31/84)* 126,202

Number of stripper well abandonments 4,931

Stripper well production *(thous. bbls.)* 152,720

Percentage of oil produced by stripper wells 18%

Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*

Primary 1,040,140

Secondary 1,040,000

Total 2,080,140

State Energy Contact

Texas Railroad Commission
Office of Information Services
P.O. Drawer 12967
Austin, TX 78711
Ph. 512-463-6710

☐ Counties with oil and/or gas production

Background Information

Number of counties	29
With oil and/or gas production	10
Land area *(thous. acres)*	52,527
Total acreage under lease	48,258
Productive of oil and/or gas	518
Non-productive of oil and/or gas	47,740
Percentage of total land area leased	1%
Percentage of leased acreage productive of oil and/or gas	1%
First year of production:	
Crude oil	1907
Natural gas	1886
Year and amount of peak production:	
Crude oil—42,301 *thous. bbls*	1975
Natural gas—94,255 *MMcf*	1982

Deepest well drilled: *(ft.)*	
Crude oil	17,732
Natural gas	19,500
Dry hole	21,874

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	3,236	40%
Gas wells	1,311	16%
Dry holes	3,556	44%
Total	8,103	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	968	441	1,409	4,096
Production	796	83	879	1,771

Value of Oil and Gas

Average 1985 wellhead price:

Crude oil *($/bbl.)*	$24.13
Natural gas *($/Mcf)*	$1.13

Wellhead value of 1985 production: *(thous. $)*

Crude oil	$984,311
Natural gas	$214,405
Total	$1,198,716

Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)* $7,909,394

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)

Crude oil—ranked 1st	44%
Natural gas—ranked 4th	14%

State and local severance and production taxes paid in 1985 *(thous. $)* $45,427

Number of employees during 1985 in:

Oil and gas extraction industry	3,850
Total petroleum industry	13,663

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked	29
Rotary drilling rigs active	29

Number of wells drilled:

	Exploratory	Development	Total
Oil	7	179	186
Gas	1	54	55
Dry	41	50	91
Service	—	3	3
Total	49	286	335

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	52.7	1,508.1	1,560.9
Gas	3.1	310.2	313.3
Dry	281.0	281.9	562.9
Service	—	16.9	16.9
Total	336.8	2,117.1	2,453.8

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled	39
New-field wildcat footage (thous. ft)	276.7

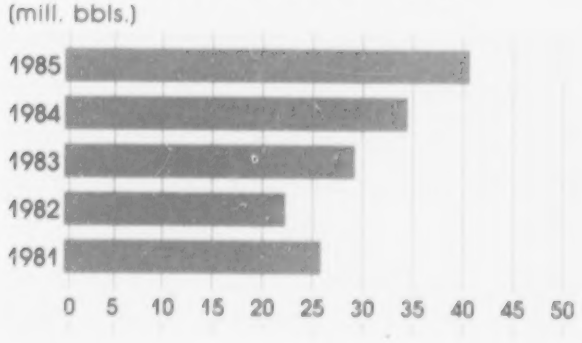
State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	18th	20th
Production	10th	19th
Reserves (1984)	14th	10th

Number of producing wells: (12/31/85)	
Crude oil	1,944
Natural gas	655
Total	2,599
Percentage of producing oil wells on artificial lift	80%

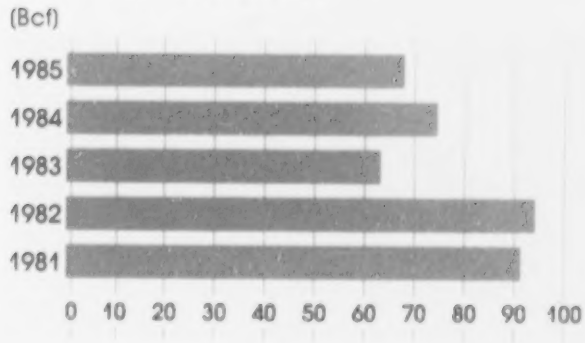
Average production:	thous. bbls.	thous. b/d
Crude oil	40,792	112
NGL	8,000	22
Total	48,792	134

Natural gas marketed production (MMcf)	68,500

Crude Oil Production



Gas Production



1984 Latest Data

Petroleum reserve position as of 12/31/84:

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	6	23	29
Production	21	10	31
Net annual change	–15	13	–2
Proved reserves	172	344	516

Natural gas reserve position as of 12/31/84:

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	8	–69	–61
Production	27	59	86
Net annual change	–19	–128	–147
Proved reserves	341	1,984	2,325

Total estimated drilling costs	$412,032,316
Cost per well	$909,564
Cost per foot	$133.21

Number of producing stripper wells (12/31/84)	348
Number of stripper well abandonments	22
Stripper well production (thous. bbls.)	1,089
Percentage of oil produced by stripper wells	3%
Stripper crude oil reserves as of 12/31/84: (thous. bbls.)	
Primary	7,885
Secondary	6,195
Total	14,080

State Energy Contact

Utah Geological and Mining Survey
Divison of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, UT 84114
Ph. 801-581-6831

VIRGINIA

☐ Counties with oil and/or gas production

Background Information

Number of counties	96
With oil and/or gas production	9
Land area *(thous. acres)*	25,411
Total acreage under lease	2,586
Productive of oil and/or gas	316
Non-productive of oil and/or gas	2,270
Percentage of total land area leased	10%
Percentage of leased acreage productive of oil and/or gas	12%
First year of production:	
Crude oil	1943
Natural gas	1931
Year and amount of peak production:	
Crude oil—65 *thous. bbls.*	1983
Natural gas—10,000 *MMcf*	1985

Deepest well drilled: *(ft.)*	
Crude oil	5,175
Natural gas	7,238
Dry hole	17,003

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	61	9%
Gas wells	492	71%
Dry holes	135	20%
Total	688	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas
	(mill. bbls.)			*(Bcf)*
Reserves	Unavailable	0	—	Unavailable
Production	Unavailable	0	—	Unavailable

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$27.00
Natural gas *($/Mcf)*	$2.02
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$702
Natural gas	$20,200
Total	$20,902
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$7,330

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 8th	Less than 1%
Natural gas—ranked 4th	2%
State and local severance and production taxes paid in 1985 *(thous. $)*	Unavailable
Number of employees during 1985 in:	
Oil and gas extraction industry	174
Total petroleum industry	25,634

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked 6

Rotary drilling rigs active 4

Number of wells drilled:

	Exploratory	Development	Total
Oil	1	0	1
Gas	0	82	82
Dry	1	1	2
Service	—	0	0
Total	2	83	85

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	6.4	0	6.4
Gas	0	451.7	451.7
Dry	1.5	1.6	3.1
Service	—	0	0
Total	7.9	453.3	461.2

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled 1

New-field wildcat footage *(thous. ft)* 1.5

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	29th	15th
Production	31st	23rd
Reserves (1984)	—	22nd

Number of producing wells: *(12/31/85)*

Crude oil ..... Unavailable

Natural gas 581

Total

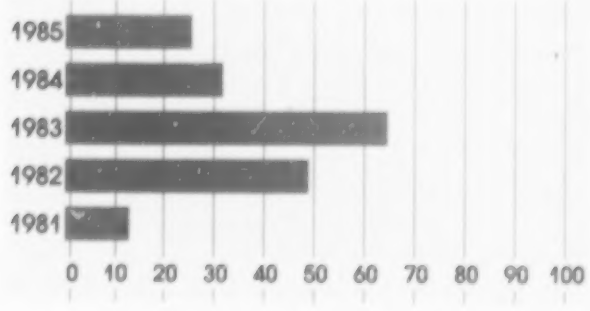
Percentage of producing oil wells on artificial lift

Average production:	thous. bbls	thous. b/d
Crude oil	26	—
NGL	0	0
Total	26	—

Natural gas marketed production *(MMcf)* 10,000

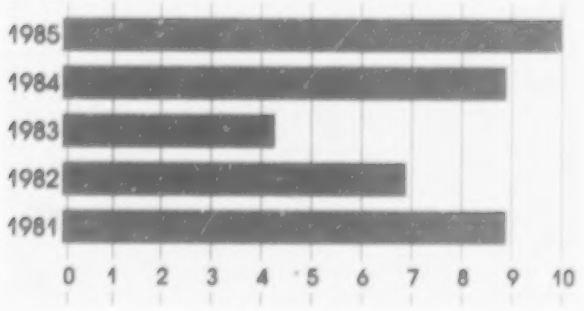
Crude Oil Production

(thous. bbls.)



Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	Unavailable	0	—
Production	—	0	—
Net annual change	—	—	—
Proved reserves	Unavailable	0	—

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	0	49	49
Production	0	8	8
Net annual change	—	41	41
Proved reserves	0	216	216

Total estimated drilling costs ..... Unavailable

Cost per well

Cost per foot

Number of producing stripper wells *(12/31/84)* 32

Number of stripper well abandonments 1

Stripper well production *(thous. bbls.)* 27

Percentage of oil produced by stripper wells 83%

Stripper crude reserves as of 12/31/84: *(thous. bbls.)*

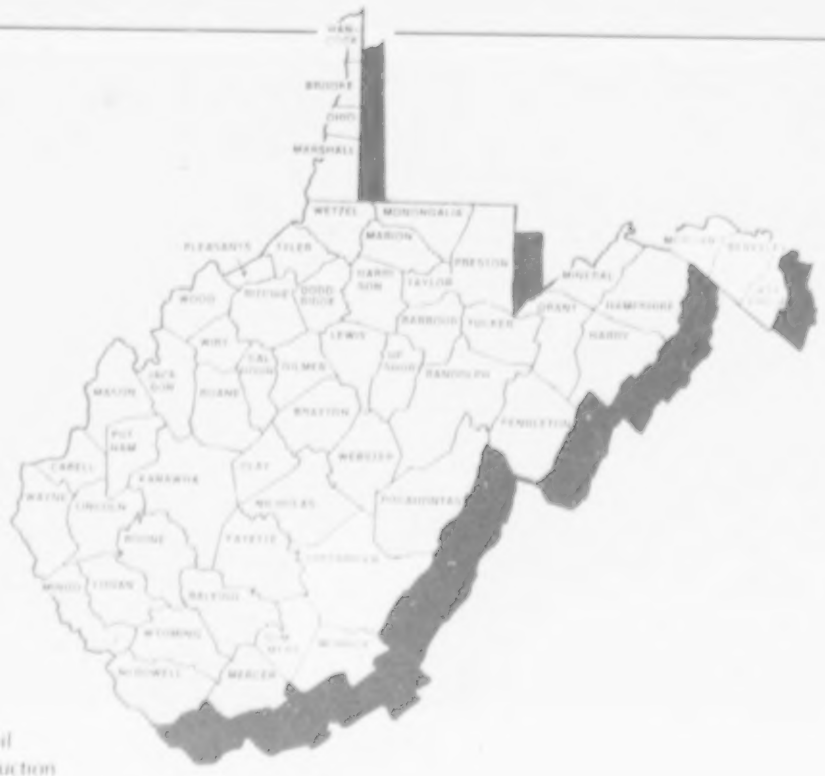
Primary 78

Secondary 0

Total 78

State Energy Contact

Virginia Energy Department
Office of Oil and Gas
310 Turner Road
Richmond, VA 23225
Ph. 804-786-3611



☐ Counties with oil and/or gas production

Background Information

Number of counties	55
With oil and/or gas production	49
Land area (thous. acres)	15,436
Total acreage under lease	12,674
Productive of oil and/or gas	7,807
Non-productive of oil and/or gas	4,866
Percentage of total land area leased	82%
Percentage of leased acreage productive of oil and/or gas	62%
First year of production:	
Crude oil	1860
Natural gas	1883
Year and amount of peak production:	
Crude oil—16,196 thous. bbls.	1900
Natural gas—242,452 MMcf	1970

Deepest well drilled: (ft.)	
Crude oil	6,785
Natural gas	14,800
Dry hole	20,222

Cumulative number of total wells drilled as of 12/31/85 (excluding service wells):

Oil wells	47,374	42%
Gas wells	44,912	40%
Dry holes	19,550	18%
Total	111,835	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas (Bcf)
	(mill. bbls.)			
Reserves	618	140	958	18,178
Production	542	260	802	15,932

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil ($/bbl.)	$24.35
Natural gas ($/Mcf)	$1.75
Wellhead value of 1985 production: (thous. $)	
Crude oil	$86,564
Natural gas	$513,353
Total	$599,917
Cumulative crude oil wellhead value as of 12/31/85: (thous. $)	$1,958,917

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 3rd	2%
Natural gas—ranked 2nd	10%
State and local severance and production taxes paid in 1985 (thous. $)	$50,777
Number of employees during 1985 in:	
Oil and gas extraction industry	3,697
Total petroleum industry	17,825

Compiled by IPAA—September 1986

1985 Industry Statistics

Seismic crew months worked	4
Rotary drilling rigs active	26

Number of wells drilled:

	Exploratory	Development	Total
Oil	1	119	120
Gas	16	1,031	1,047
Dry	1	20	21
Service	—	4	4
Total	18	1,174	1,192

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	1.9	376.6	378.5
Gas	68.6	4,440.2	4,508.8
Dry	2.2	61.8	64.0
Service	—	9.6	9.6
Total	72.7	4,888.2	4,960.8

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled	1
New-field wildcat footage *(thous. ft)*	4.9

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	20th	4th
Production	24th	13th
Reserves (1984)	19th	11th

Number of producing wells: *(12/31/85)*	
Crude oil	15,895
Natural gas	32,500
Total	48,395
Percentage of producing oil wells on artificial lift	100%

Average production:	thous. bbls.	thous. bbl
Crude oil	3,555	10
NGL	4,000	11
Total	7,555	21

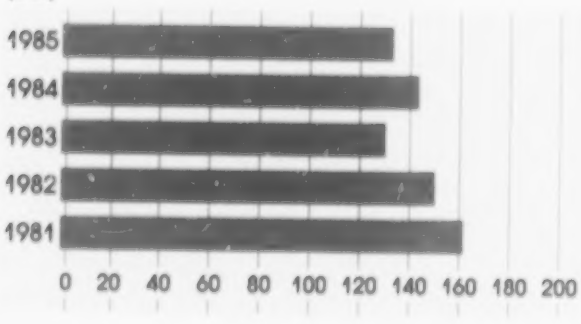
Natural gas marketed production *(MMcf)*	136,894

Crude Oil Production

(mill. bbls.)

Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	34	–5	29
Production	7	6	13
Net annual change	27	–11	16
Proved reserves	76	80	156

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	–7	103	96
Production	6	168	174
Net annual change	–13	–65	–78
Proved reserves	73	2,173	2,246

Total estimated drilling costs	Unavailable
Cost per well	
Cost per foot	

Number of producing stripper wells *(12/31/84)*	15,200
Number of stripper well abandonments	79
Stripper well production *(thous. bbls.)*	3,270
Percentage of oil produced by stripper wells	99%
Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*	
Primary	17,664
Secondary	26,496
Total	44,160

State Energy Contact

West Virginia Department of Mines
Oil and Gas Division
1613 Washington Street, East
Charleston, WV 25311
Ph. 304-348-3500

WYOMING

☐ Counties with oil and/or gas production

Background Information

Number of counties	23
With oil and/or gas production	20
Land area *(thous. acres)*	62,073
Total acreage under lease	39,064
Productive of oil and/or gas	2,697
Non-productive of oil and/or gas	36,367
Percentage of total land area leased	63%
Percentage of leased acreage productive of oil and/or gas	7%
First year of production:	
Crude oil	1867
Natural gas	1889
Year and amount of peak production:	
Crude oil—160,345 *thous. bbls.*	1970
Natural gas—516,683 *MMcf*	1984

Deepest well drilled: *(ft.)*	
Crude oil	19,612
Natural gas	24,877
Dry hole	25,764

Cumulative number of total wells drilled as of 12/31/85: *(excluding service wells)*

Oil wells	25,595	52%
Gas wells	3,578	7%
Dry holes	20,556	41%
Total	49,729	100%

Cumulative production and reserves added as of 12/31/84:

	Crude Oil	NGL	Total	Natural Gas *(Bcf)*
	(mill. bbls.)			
Reserves	5,989	791	6,780	21,914
Production	5,047	334	5,381	10,900

Value of Oil and Gas

Average 1985 wellhead price:	
Crude oil *($/bbl.)*	$24.67
Natural gas *($/Mcf)*	$3.01
Wellhead value of 1985 production: *(thous. $)*	
Crude oil	$3,170,440
Natural gas	$1,496,807
Total	$4,667,247
Cumulative crude oil wellhead value as of 12/31/85: *(thous. $)*	$35,011,850

Rank in value of principal mineral production and percentage of total mineral value: (1984 data)	
Crude oil—ranked 1st	47%
Natural gas—ranked 2nd	24%
State and local severance and production taxes paid in 1985 *(thous. $)*	$244,316
Number of employees during 1985 in:	
Oil and gas extraction industry	14,643
Total petroleum industry	21,487

1985 Industry Statistics

Seismic crew months worked	163
Rotary drilling rigs active	93

Number of wells drilled:

	Exploratory	Development	Total
Oil	82	606	688
Gas	11	52	63
Dry	448	210	658
Service	—	48	48
Total	541	916	1,457

Total footage drilled:

(thous. ft.)	Exploratory	Development	Total
Oil	728.0	3,563.6	4,291.6
Gas	139.6	499.3	638.9
Dry	3,700.6	1,487.5	5,188.1
Service	—	130.0	130.0
Total	4,568.2	5,680.4	10,248.6

(Note: Totals may not add due to rounding.)

Number of new-field wildcats drilled	447
New-field wildcat footage *(thous. ft)*	3,736.7

State-wide rank in:	Crude Oil	Natural Gas
Wells drilled	11th	18th
Production	6th	6th
Reserves (1984)	5th	6th

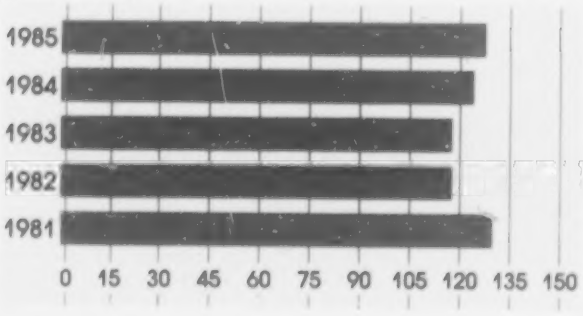
Number of producing wells: *(12/31/85)*	
Crude oil	12,038
Natural gas	2,161
Total	14,199
Percentage of producing oil wells on artificial lift	93%

Average production:	thous. bbls.	thous. b/d
Crude oil	128,514	352
NGL	30,000	82
Total	158,514	434

Natural gas marketed production *(MMcf)*	497,278

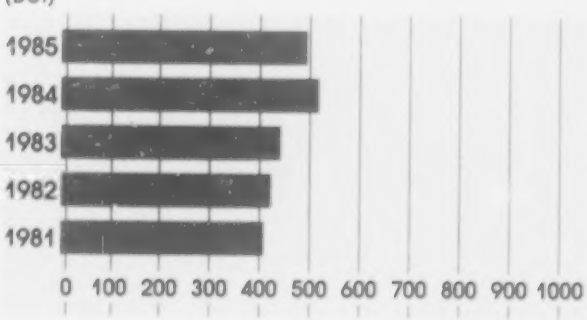
Crude Oil Production

(mill. bbls.)



Gas Production

(Bcf)



1984 Latest Data

Petroleum reserve position as of *12/31/84:*

(mill. bbls.)	Crude Oil	NGL	Total
New reserves added	114	98	212
Production	117	40	157
Net annual change	–3	58	55
Proved reserves	934	516	1,470

Natural gas reserve position as of *12/31/84:*

(Bcf)	Dissolved Associated	Non-Associated	Total Gas
New reserves added	16	778	794
Production	108	400	508
Net annual change	–92	378	286
Proved reserves	867	10,147	11,014

Total estimated drilling costs	$1,041,421,781
Cost per well	$610,805
Cost per foot	$88.54

Number of producing stripper wells *(12/31/84)*	5,020
Number of stripper well abandonments	Unavailable
Stripper well production *(thous. bbls.)*	7,119
Percentage of oil produced by stripper wells	6%
Stripper crude oil reserves as of 12/31/84: *(thous. bbls.)*	
Primary	95,480
Secondary	75,020
Total	170,500

State Energy Contact

Wyoming Oil and Gas Conservation Commission
777 West First Street
P.O. Box 2640
Casper, WY 82602
Ph. 307-234-7147

Exploration

Seismic Exploration Activity

(crew months)	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	81	13	32	50	126	156	116	105	157	78
Alaska	54	24	16	30	37	82	129	58	79	48
Arizona	0	1	8	54	35	33	9	4	7	4
Arkansas	32	45	48	35	37	67	117	117	40	57
California	109	65	119	122	157	192	221	186	152	149
Colorado	53	42	61	58	87	56	141	176	208	131
Florida	19	17	18	17	21	42	20	37	10	18
Illinois	5	4	3	10	5	9	16	11	13	11
Indiana	1	0	0	0	6	0	1	3	13	3
Kansas	36	28	64	88	76	65	98	75	114	69
Kentucky	11	7	1	7	23	12	4	24	3	3
Louisiana	340	318	560	665	654	501	563	423	436	280
Maryland	3	1	0	1	4	6	2	2	1	0
Michigan	266	180	244	111	145	239	159	160	144	241
Mississippi	163	199	173	154	168	175	180	124	85	78
Montana	85	57	155	135	202	388	224	156	125	43
Nebraska	3	5	2	24	13	17	20	14	16	8
Nevada	12	38	45	51	47	41	61	39	54	60
New Mexico	79	53	89	85	120	136	156	116	114	63
New York	15	12	2	2	11	7	7	7	12	9
North Dakota	44	96	269	269	242	268	252	114	74	79
Ohio	2	3	2	1	3	8	3	15	12	9
Oklahoma	90	103	234	240	169	301	256	316	231	202
Oregon	0	9	4	0	9	27	27	13	33	19
Pennsylvania	25	21	41	33	39	49	37	27	3	17
South Dakota	0	1	63	3	2	3	9	14	4	0
Tennessee	5	8	9	26	30	34	24	17	19	4
Texas	914	722	1,095	1,213	1,438	1,745	1,583	1,353	1,199	932
Utah	65	71	163	106	158	122	127	111	121	29
Virginia	3	0	4	17	24	31	18	9	3	6
West Virginia	13	8	11	15	24	23	9	17	17	4
Wyoming	239	183	211	366	274	317	253	323	306	163
Other	20	27	43	43	37	29	64	61	71	66
Undesignated Land	56	502	95	91	190	240	194	147	226	14
Total Land	**2,843**	**2,863**	**3,884**	**4,122**	**4,613**	**5,421**	**5,098**	**4,374**	**4,102**	**2,897**
Total Marine	**296**	**200**	**263**	**278**	**348**	**456**	**578**	**569**	**577**	**597**
TOTAL U.S.	**3,140**	**3,063**	**4,148**	**4,400**	**4,962**	**5,877**	**5,676**	**4,943**	**4,679**	**3,494**

Source: Society of Exploration Geophysicists

Note: Data include government and university activity, but exclude gravity, magnetic and other geophysical methods.

Acreage Under Lease

(thous. acres)	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	4,108	4,497	5,512	7,352	8,985	9,186	9,298	9,416	9,182	8,010
Alaska	7,616	5,671	5,131	3,744	3,528	4,131	5,464	10,574	11,240	12,582
Arizona	9,106	9,246	10,975	11,945	12,005	20,146	22,018	23,731	23,731	23,747
Arkansas	7,899	8,116	7,917	7,982	9,133	10,141	12,087	13,300	12,998	10,694
California	3,613	3,666	3,554	4,040	4,106	5,056	6,019	8,566	9,176	5,810
Colorado	36,350	35,148	35,200	34,747	31,809	30,639	31,577	35,532	35,531	35,622
Connecticut	0	0	0	0	0	0	0	0	83	12
Delaware	0	0	0	0	0	0	0	0	136	127
Florida	2,787	2,654	2,848	2,805	3,005	3,715	3,755	5,130	2,637	2,639
Georgia	67	17	47	92	1,450	1,950	2,620	2,960	2,800	2,291
Idaho	NA	NA	NA	1,103	1,079	1,470	1,208	871	913	600
Illinois	4,391	3,891	3,651	3,905	4,413	4,673	4,468	4,629	4,735	5,900
Indiana	3,314	3,517	3,570	3,725	8,779	8,833	8,848	8,963	8,963	8,000
Iowa	0	0	0	0	0	0	0	300	5,000	5,000
Kansas	7,797	10,955	12,001	12,984	13,222	13,795	16,497	18,672	19,750	16,380
Kentucky	3,560	3,714	3,925	4,083	4,950	5,225	5,500	5,525	6,350	5,458
Louisiana	9,476	14,786	17,620	14,767	15,962	16,100	13,550	13,672	14,500	14,080
Maryland	204	204	286	364	449	494	435	370	314	316
Massachusetts	0	0	0	0	0	0	9	9	12	15
Michigan	11,878	12,293	12,540	10,785	12,550	14,074	14,324	14,577	14,756	14,931
Minnesota	0	0	0	0	0	0	80	80	570	900
Mississippi	7,311	7,118	7,651	7,951	7,951	11,927	11,944	11,479	10,402	9,500
Missouri	302	402	452	502	504	612	633	713	713	712
Montana	32,682	32,430	33,953	34,110	30,060	38,170	42,023	44,050	44,050	44,111
Nebraska	10,180	10,441	10,386	10,548	12,584	12,570	14,416	13,411	13,411	13,508
Nevada	6,501	9,822	12,753	15,719	17,856	23,554	11,646	29,853	29,853	29,876
New Hampshire	0	0	0	0	0	106	302	200	144	145
New Jersey	0	0	0	0	0	0	0	0	132	75
New Mexico	29,035	29,514	29,350	29,350	30,130	30,020	31,413	42,525	42,621	42,688
New York	4,700	4,965	5,070	4,975	5,500	5,710	5,850	5,900	5,600	5,610
North Carolina	2,200	327	324	379	94	552	375	375	457	500
North Dakota	21,752	22,355	22,653	22,752	22,299	22,920	22,256	23,300	23,300	23,324
Ohio	15,200	15,192	15,188	15,429	16,527	16,520	16,448	16,443	15,209	14,886
Oklahoma	11,050	13,056	14,960	16,083	16,887	17,402	17,692	18,990	19,200	20,435
Oregon	NA	NA	NA	4,501	4,001	4,001	9,002	7,002	5,025	4,460
Pennsylvania	15,445	15,917	16,133	16,632	17,010	17,140	17,540	17,672	17,997	18,042
South Carolina	0	0	0	0	100	200	203	583	1,760	1,300
South Dakota	6,732	6,568	6,442	6,821	7,458	8,120	7,027	7,325	8,120	8,123
Tennessee	2,079	1,491	2,043	2,988	2,972	4,327	4,929	4,441	3,827	3,115
Texas	45,341	47,819	49,129	51,670	60,075	64,350	64,723	70,300	68,374	60,670
Utah	26,263	28,675	28,130	28,891	29,519	30,900	32,014	38,230	38,230	38,258
Vermont	0	0	0	0	0	270	360	412	17	5
Virginia	872	1,020	1,206	2,024	3,053	3,457	3,159	3,376	3,236	2,586
West Virginia	11,838	12,158	12,972	13,542	13,934	14,114	13,447	13,757	13,408	12,673
Wisconsin	0	0	0	0	0	0	0	20	110	150
Wyoming	38,930	38,998	37,620	39,597	38,765	36,850	34,227	38,999	38,999	39,064
TOTAL U.S.	**400,581**	**416,543**	**431,192**	**448,887**	**472,704**	**513,440**	**539,386**	**586,223**	**587,572**	**566,930**

Sources: Petroleum Information Corp. and various state and industry contacts

Note: Figures are estimates of both productive and non-productive acreage as of December 31st each year.

Drilling

Rotary Rigs Operating

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	17	14	13	13	11	17	15	16	15	22
Alaska	14	15	16	14	14	23	22	14	14	20
Arizona	†	†	†	0	1	1	1	†	0	†
Arkansas	15	15	14	10	27	34	27	26	26	24
California	89	90	94	96	120	155	129	106	107	81
Colorado	38	45	41	40	61	82	60	52	54	50
Florida	5	6	6	5	4	8	5	4	4	7
Illinois	22	16	28	13	25	45	76	61	41	29
Indiana	2	3	4	†	†	1	7	6	7	4
Kansas	51	67	76	66	120	196	157	125	128	92
Kentucky	1	2	3	†	2	5	10	8	8	6
Louisiana	231	292	338	347	427	456	343	282	310	283
Michigan	24	24	24	25	31	37	31	29	34	34
Mississippi	32	42	45	40	58	72	42	33	32	31
Montana	28	27	30	33	49	81	36	24	36	23
Nebraska	8	9	10	9	14	15	9	9	9	7
Nevada	2	3	3	4	5	5	3	1	5	5
New Mexico	54	70	76	88	118	135	103	65	78	71
New York	9	7	7	9	7	12	15	10	9	5
North Dakota	19	24	39	56	83	119	69	42	51	39
Ohio	26	33	46	46	74	98	57	40	51	29
Oklahoma	187	233	258	247	397	698	622	285	319	252
Oregon	†	†	†	1	†	2	†	†	1	1
Pennsylvania	10	15	25	29	29	39	33	22	36	30
South Dakota	2	3	2	1	2	2	2	1	2	2
Texas	653	779	855	770	987	1,317	990	797	850	680
Utah	19	30	32	29	42	69	40	37	45	29
Virginia	†	1	1	1	1	3	3	2	3	4
West Virginia	12	17	27	30	38	45	49	34	38	26
Wyoming	86	118	136	147	155	191	143	96	115	93
Other	2	1	10	8	7	7	6	3	0	1
TOTAL U.S.	**1,658**	**2,001**	**2,259**	**2,177**	**2,909**	**3,970**	**3,105**	**2,232**	**2,428**	**1,980**

Source: Hughes Tool Company

Note: Data include offshore rigs.

† Averages less than one rig

New-Field Wildcats Drilled

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	50	44	57	92	73	71	79	84	120	139
Alaska	6	14	6	12	16	14	7	0	2	0
Arizona	2	2	0	2	6	8	6	11	2	1
Arkansas	80	74	95	99	109	146	120	145	123	104
California	96	90	108	113	140	132	94	87	106	83
Colorado	317	286	309	294	353	509	366	292	366	337
Florida	9	13	15	10	8	10	12	13	12	10
Illinois	70	52	78	56	107	167	251	344	262	133
Indiana	86	67	104	63	104	95	113	123	95	97
Kansas	300	310	311	368	386	480	362	341	228	335
Kentucky	112	75	73	86	89	99	177	133	99	37
Louisiana	429	484	567	531	673	800	659	551	669	532
Michigan	291	294	266	247	313	402	449	302	535	433
Mississippi	230	260	237	232	280	355	268	252	281	257
Missouri	7	8	6	9	8	28	11	15	13	9
Montana	266	197	245	255	277	400	204	139	200	189
Nebraska	165	207	242	243	237	269	191	185	176	140
Nevada	8	8	13	11	20	25	10	5	31	24
New Mexico	125	122	149	157	214	248	205	117	112	128
New York	29	35	32	25	30	25	5	8	9	6
North Dakota	82	78	127	113	192	332	246	127	180	129
Ohio	8	8	6	21	4	20	35	27	30	20
Oklahoma	216	211	197	176	196	267	263	166	159	129
Oregon	0	2	0	10	24	11	2	0	1	1
Pennsylvania	15	36	17	19	22	16	21	3	18	24
South Dakota	27	16	21	25	29	46	30	33	14	15
Tennessee	86	88	91	116	222	256	328	307	162	88
Texas	2,299	2,571	2,860	2,588	2,698	3,154	2,293	1,697	1,744	1,435
Utah	35	88	65	65	76	136	108	100	100	39
Virginia	1	4	2	4	2	6	13	13	2	1
West Virginia	26	21	16	16	22	39	26	5	5	1
Wyoming	348	371	393	323	369	551	386	392	496	447
Other	8	2	8	3	9	7	11	6	11	7
Federal Waters	27	24	15	39	24	27	34	34	69	98
TOTAL U.S.	**5,856**	**6,162**	**6,731**	**6,423**	**7,332**	**9,151**	**7,386**	**6,057**	**6,432**	**5,428**

Source: American Petroleum Institute

Notes: Data include oil wells, gas wells and dry holes.
Figures based on new well-completion system.

Exploratory Wells Drilled

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	54	47	60	101	77	75	79	84	120	139
Alaska	6	21	12	14	16	20	10	3	2	0
Arizona	2	2	0	2	6	8	7	11	2	2
Arkansas	80	82	95	105	111	154	128	154	132	121
California	257	275	359	395	443	538	468	195	200	174
Colorado	389	392	449	456	553	849	653	504	574	533
Florida	9	14	15	11	8	10	12	13	12	10
Illinois	226	238	277	284	487	736	695	729	664	425
Indiana	196	276	268	183	327	347	451	453	401	382
Kansas	893	1,043	1,181	1,022	1,237	1,848	1,838	1,718	2,340	1,694
Kentucky	425	368	353	423	619	870	1,118	1,375	931	554
Louisiana	607	640	782	665	808	971	801	592	760	617
Michigan	294	297	267	255	316	402	449	302	535	441
Mississippi	265	272	241	242	310	357	268	252	281	258
Missouri	9	8	6	15	22	78	79	43	28	15
Montana	362	273	324	349	382	521	275	181	251	218
Nebraska	193	235	265	265	252	279	197	187	180	148
Nevada	8	12	14	11	20	28	11	7	32	25
New Mexico	162	180	205	212	273	358	314	192	224	281
New York	40	49	45	60	59	79	44	41	29	18
North Dakota	122	111	162	175	256	461	371	211	279	212
Ohio	133	81	77	114	66	151	180	114	108	78
Oklahoma	452	490	495	479	554	733	707	567	513	385
Oregon	0	2	0	17	32	20	8	0	1	3
Pennsylvania	67	116	94	105	255	342	165	92	102	59
South Dakota	29	20	21	32	33	47	33	34	16	17
Tennessee	153	177	149	163	293	333	413	328	163	94
Texas	3,276	3,726	4,085	3,910	4,354	5,688	5,077	4,524	5,085	4,081
Utah	41	103	80	89	112	208	149	132	112	49
Virginia	3	9	5	4	2	6	26	14	2	2
West Virginia	114	115	131	124	119	170	156	60	35	18
Wyoming	415	440	470	411	435	708	537	473	593	541
Other	8	2	8	3	9	8	12	6	11	7
Federal Waters	27	24	15	39	24	27	34	36	72	99
TOTAL U.S.	**9,317**	**10,140**	**11,030**	**10,735**	**12,870**	**17,430**	**15,766**	**13,627**	**14,790**	**11,700**

Source: American Petroleum Institute

Notes: Data include oil wells, gas wells and dry holes.
Figures based on new well-completion system.

Development Wells Drilled

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	62	88	101	118	119	142	133	133	250	204
Alaska	54	48	55	71	108	146	200	157	160	20
Arizona	0	2	8	1	0	3	1	1	0	1
Arkansas	348	399	347	393	496	723	680	723	737	854
California	2,161	1,938	1,639	1,592	2,072	2,593	2,107	2,143	3,233	2,947
Colorado	762	791	701	607	857	1,122	1,173	978	1,217	926
Florida	16	15	11	20	11	15	9	7	11	11
Illinois	1,058	851	855	967	1,828	2,550	2,433	2,181	2,155	1,682
Indiana	291	337	401	302	406	460	571	534	520	528
Kansas	2,646	2,899	3,312	3,338	4,923	6,542	6,491	5,342	4,040	3,457
Kentucky	742	688	657	709	1,463	2,030	2,583	2,721	2,750	1,587
Louisiana	2,719	2,753	3,001	3,358	4,223	4,362	4,244	4,359	5,982	4,641
Michigan	213	243	257	264	345	362	435	457	564	382
Mississippi	233	255	248	281	360	431	316	298	332	310
Missouri	13	4	26	56	143	189	104	133	85	7
Montana	409	400	453	471	507	744	536	326	556	373
Nebraska	119	186	183	184	260	327	212	181	185	113
Nevada	0	6	7	0	1	2	0	1	5	9
New Mexico	859	1,210	1,375	1,396	1,793	2,099	1,733	1,301	1,392	1,413
New York	419	345	330	437	436	492	623	370	542	377
North Dakota	122	131	178	265	360	417	325	278	421	273
Ohio	2,071	2,685	3,254	4,532	5,023	5,926	4,618	4,150	4,743	3,335
Oklahoma	4,104	4,821	5,641	6,477	9,568	12,337	10,660	8,340	8,872	6,593
Oregon	0	0	0	4	9	0	0	0	0	2
Pennsylvania	1,212	1,433	2,013	2,068	2,833	3,317	3,168	2,324	3,269	2,407
South Dakota	6	23	29	17	41	43	20	18	28	27
Tennessee	46	110	115	185	257	295	214	189	184	75
Texas	9,335	10,898	11,260	11,414	15,172	20,291	19,707	18,897	21,579	18,654
Utah	87	184	186	187	177	347	313	283	379	283
Virginia	8	16	26	21	25	26	71	21	64	83
West Virginia	875	1,112	1,352	1,445	1,752	1,948	1,921	1,536	1,828	1,170
Wyoming	630	827	996	963	1,037	1,289	1,124	997	1,143	868
Other	2	0	0	0	0	0	0	0	0	2
Federal Waters	1	17	14	12	11	12	26	42	26	26
TOTAL U.S.	**31,623**	**35,715**	**39,031**	**41,155**	**56,616**	**71,804**	**66,751**	**59,421**	**67,242**	**53,640**

Source: American Petroleum Institute

Notes: Data include oil wells, gas wells and dry holes.
Figures based on new well-completion system.

Total Wells Drilled

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	116	136	161	219	196	222	214	217	370	343
Alaska	77	73	76	96	125	172	227	163	172	21
Arizona	2	4	8	4	6	14	14	12	2	3
Arkansas	438	491	450	504	612	889	825	900	894	996
California	2,808	2,553	2,485	2,340	3,039	3,838	3,097	2,733	3,822	3,305
Colorado	1,152	1,212	1,156	1,069	1,414	1,977	1,832	1,484	1,797	1,480
Florida	26	32	29	32	21	25	21	20	23	21
Illinois	1,484	1,143	1,202	1,327	2,482	3,436	3,253	3,035	2,867	2,111
Indiana	509	621	685	494	751	828	1,051	1,022	984	938
Kansas	3,705	4,060	4,576	4,436	6,266	8,551	8,561	7,265	6,496	5,246
Kentucky	1,189	1,095	1,077	1,195	2,171	3,062	3,804	4,232	3,772	2,173
Louisiana	3,373	3,439	3,817	4,063	5,147	5,503	5,117	5,046	6,869	5,333
Michigan	530	545	539	538	676	787	900	772	1,116	838
Mississippi	504	539	496	534	680	788	584	550	613	568
Missouri	44	53	49	85	266	397	305	243	260	25
Montana	773	679	778	822	902	1,289	816	511	819	592
Nebraska	312	425	451	450	514	608	414	369	376	263
Nevada	8	18	22	12	21	34	13	8	37	34
New Mexico	1,042	1,407	1,625	1,656	2,126	2,527	2,100	1,527	1,661	1,715
New York	519	485	427	513	507	578	668	413	571	395
North Dakota	245	242	341	440	619	879	696	489	700	485
Ohio	2,205	2,768	3,333	3,657	5,093	6,082	4,814	4,288	4,883	3,420
Oklahoma	4,741	5,344	6,164	6,980	10,158	13,125	11,390	8,943	9,449	7,044
Oregon	0	2	0	21	41	20	8	0	1	5
Pennsylvania	1,316	1,569	2,182	2,295	3,261	3,962	3,399	2,465	3,444	2,494
South Dakota	36	43	50	49	75	90	53	52	44	46
Tennessee	199	287	264	348	550	628	627	517	347	169
Texas	12,982	15,114	15,863	15,810	20,038	26,442	25,439	24,089	27,422	23,569
Utah	131	305	268	264	291	555	482	415	492	335
Virginia	11	25	31	25	27	32	97	35	66	85
West Virginia	1,035	1,267	1,537	1,612	1,924	2,170	2,114	1,619	1,899	1,192
Wyoming	1,059	1,281	1,489	1,392	1,518	2,043	1,719	1,508	1,772	1,457
Other	14	5	11	9	10	8	15	10	17	9
Federal Waters	29	46	29	51	35	39	60	78	98	125
TOTAL U.S.	**42,614**	**47,308**	**51,671**	**53,362**	**71,562**	**91,600**	**84,729**	**75,032**	**84,155**	**66,835**

Source: American Petroleum Institute

Notes: Data include oil, gas and service wells, dry holes, stratigraphic and core tests.
Figures based on new well-completion system.

Cost of Drilling and Equipping Wells—1984

	No. of Wells Drilled	Footage Drilled (ft.)	Depth per Well	Total Cost	Cost per Well ($)	Cost per Foot
Alabama	361	1,832,273	5,076	173,635,816	480,986	94.77
Alaska—Onshore	156	1,351,125	8,661	429,395,871	2,752,538	317.81
Offshore	6	61,697	10,283	30,022,161	5,003,694	486.61
Total	162	1,412,822	8,721	459,418,032	2,835,914	325.18
Arkansas	853	4,106,327	4,814	194,761,711	228,326	47.43
California—North	218	1,448,488	6,644	113,730,096	521,698	78.52
Central Coastal	164	717,219	4,373	120,286,056	733,452	167.71
East Central	2,815	5,481,472	1,947	496,347,712	176,322	90.55
South	100	442,692	4,427	76,297,162	762,972	172.35
Offshore	128	831,838	6,499	283,845,010	2,217,539	341.23
Total	3,425	8,921,709	2,605	1,090,506,036	318,396	122.23
Colorado	1,753	10,424,210	5,946	557,298,136	317,911	53.46
Florida	22	297,634	13,529	34,214,141	1,555,188	114.95
Illinois	2,602	6,643,448	2,553	215,711,292	82,902	32.47
Indiana	899	1,687,759	1,877	44,134,347	49,093	26.15
Kansas	6,028	22,094,831	3,665	586,751,564	97,338	26.56
Kentucky	3,168	4,489,046	1,417	137,514,179	43,407	30.63
Louisiana—North	4,269	11,701,367	2,741	474,940,494	111,253	40.59
South	1,432	14,577,099	10,180	1,632,848,895	1,140,258	112.01
Offshore	979	9,949,063	10,162	2,948,047,683	3,011,285	296.31
Total	6,680	36,227,529	5,423	5,055,837,072	756,862	139.56
Michigan	1,025	4,917,337	4,797	254,596,490	248,387	51.78
Mississippi	611	5,110,493	8,364	301,045,762	492,710	58.91
Montana	790	3,886,661	4,920	263,740,418	333,849	67.86
Nebraska	348	1,691,587	4,861	42,901,147	123,279	25.36
New Mexico—East	1,054	6,706,018	6,362	459,896,505	436,334	68.58
West	513	3,022,258	5,891	183,695,940	358,082	60.78
Total	1,567	9,728,276	6,208	643,592,445	410,716	66.16
North Dakota	684	6,043,871	8,836	121,894,533	616,805	69.81
Oklahoma	8,978	44,251,119	4,929	2,795,220,222	311,341	63.17
Texas—District 1	2,804	7,083,734	2,526	328,164,402	117,034	46.33
2	682	4,457,648	6,536	330,158,174	484,103	74.07
3	2,114	16,365,609	7,742	1,347,700,484	637,512	82.35
4	1,416	11,165,747	7,885	1,070,436,451	755,958	95.87
5	511	3,067,173	6,002	272,457,598	532,989	88.80
6	1,077	7,642,855	7,096	592,792,471	550,411	77.56
7B	4,877	14,806,129	3,036	471,826,365	96,745	31.87
7C	1,886	10,614,613	5,628	484,895,847	257,103	45.68
8	3,001	17,514,758	5,836	1,145,403,377	381,674	65.40
8A	2,134	12,709,321	5,956	593,910,256	278,308	46.73
9	3,655	13,111,151	3,587	466,388,998	127,603	35.57
10	1,309	7,315,849	5,589	473,529,991	361,749	64.73
Offshore	226	2,495,562	11,042	1,016,946,190	4,499,762	407.50
Total	25,692	128,350,151	4,996	8,594,510,196	334,521	66.96
Utah	453	3,093,103	6,828	412,032,316	909,564	133.21
Wyoming	1,705	12,318,138	7,225	1,041,421,781	610,805	85.54
Appalachia	8,871	30,858,313	3,479	1,085,954,872	122,416	35.19
Federal Waters—Alaska	5	41,482	8,296	61,157,227	12,231,445	1,474.31
Atlantic Coast	3	45,371	15,124	72,228,519	24,076,173	1,591.95
Gulf North	60	701,449	11,691	457,808,257	7,630,138	652.66
Pacific	12	90,857	7,571	114,805,797	9,567,150	1,263.59
Total	80	879,159	10,989	705,999,800	8,824,998	803.04
All Other	451	1,322,930	2,920	93,526,798	206,461	70.70
Total Offshore	**1,421**	**14,259,153**	**10,035**	**5,023,946,644**	**3,535,501**	**352.33**
Total Onshore	**75,789**	**336,329,573**	**4,438**	**20,182,272,662**	**266,296**	**60.01**
TOTAL U.S.	**77,210**	**350,588,726**	**4,541**	**25,206,219,306**	**326,463**	**71.90**

Source: Joint Association Survey

Notes: Appalachia includes New York, Ohio, Pennsylvania and West Virginia.
1985 data unavailable.

Producing Crude Oil Wells

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	633	637	630	514	669	692	719	741	759	810
Alaska	190	291	366	400	642	700	760	672	640	977
Arizona	27	28	31	35	32	35	36	34	31	28
Arkansas	7,212	7,503	7,553	7,698	8,104	8,249	8,629	8,370	9,490	9,700
California	44,783	43,454	44,999	44,674	45,591	47,362	47,231	47,197	48,541	49,874
Colorado	2,376	3,045	3,227	3,402	3,490	2,898	3,113	4,591	5,360	5,457
Florida	144	144	115	115	120	117	123	137	138	149
Illinois	23,509	23,828	23,869	24,067	24,745	26,100	27,600	28,967	30,045	31,100
Indiana	4,798	4,891	5,076	5,296	5,452	5,715	6,047	6,465	6,792	7,164
Kansas	42,250	42,450	43,258	47,379	47,457	42,402	46,189	49,348	49,198	51,888
Kentucky	13,970	14,046	14,149	14,097	14,517	14,585	15,109	15,562	19,980	21,844
Louisiana	26,400	23,881	24,500	24,767	26,014	25,320	22,380	23,376	24,508	25,823
Michigan	3,770	3,903	3,890	3,890	4,109	4,417	4,536	4,913	4,881	5,125
Mississippi	2,212	2,260	2,254	2,556	2,631	3,154	2,640	2,727	2,562	3,468
Missouri	145	161	161	188	258	421	499	552	557	581
Montana	3,310	3,354	3,275	3,573	3,628	3,968	4,311	4,675	4,201	4,196
Nebraska	1,292	1,369	1,455	1,535	1,679	1,870	2,006	2,100	2,095	2,091
Nevada	12	20	25	26	25	28	31	34	37	45
New Mexico	13,846	14,265	14,398	15,045	15,746	16,289	16,526	17,409	18,146	18,697
New York	5,000	4,800	4,900	4,800	5,000	5,300	5,320	5,432	4,678	4,811
North Dakota	1,571	1,638	1,732	1,908	2,290	2,570	2,870	3,734	3,404	3,697
Ohio	15,453	17,363	18,097	19,177	20,451	22,441	24,752	26,287	26,878	27,975
Oklahoma	72,388	73,653	74,870	76,505	78,463	82,639	91,745	95,868	99,600	103,000
Pennsylvania	32,065	28,805	28,400	27,768	27,925	26,138	25,285	24,657	20,739	24,000
South Dakota	NA	NA	NA	88	118	120	130	140	138	165
Tennessee	197	272	279	338	441	489	650	693	775	798
Texas	160,675	163,815	165,817	168,123	174,511	180,627	187,626	195,595	203,664	209,040
Utah	1,188	863	1,291	1,346	1,478	1,543	1,583	1,634	1,799	1,944
West Virginia	13,800	13,900	14,100	14,225	14,425	14,700	14,900	15,300	15,475	15,895
Wyoming	10,027	10,103	10,011	10,059	10,227	11,574	11,792	11,349	11,561	12,038
Other	6	67	81	2	6	11	19	21	31	28
Federal Waters	NA	3,531	3,429	3,259	3,266	4,535	4,985	4,710	4,104	4,327
TOTAL U.S.	**503,268**	**508,340**	**516,238**	**526,855**	**543,510**	**557,009**	**580,142**	**603,290**	**620,807**	**646,735**

Source: *World Oil*

Notes: Data include wells on artificial lift and flowing.
Figures as of December 31st each year.

Producing Natural Gas Wells

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	66	133	170	264	262	309	461	540	664	822
Alaska	36	50	65	56	54	120	123	103	78	81
Arkansas	1,042	1,170	1,143	1,200	1,188	1,337	1,679	1,850	2,371	2,550
California	1,123	1,050	854	838	905	1,154	1,050	1,082	1,168	1,319
Colorado	1,500	1,876	2,169	2,444	2,650	3,988	3,667	4,072	3,663	4,529
Illinois	41	40	30	51	58	70	60	67	157	190
Indiana	541	563	596	631	655	698	720	736	1,194	1,220
Kansas	9,115	9,410	9,450	10,351	10,544	11,014	11,254	11,494	11,503	11,776
Kentucky	7,505	7,649	7,776	7,765	7,992	8,033	8,084	8,234	9,013	9,515
Louisiana	11,370	9,758	10,135	10,848	11,486	12,763	13,503	13,894	14,238	14,436
Michigan	304	342	376	376	423	667	667	539	749	755
Mississippi	257	285	402	431	458	570	520	525	671	690
Montana	1,950	1,490	1,377	1,881	2,150	2,142	2,069	2,043	2,088	2,033
Nebraska	16	16	22	23	22	26	22	24	21	NA
New Mexico	11,479	11,200	12,027	12,922	13,843	14,968	16,025	16,214	16,401	16,447
New York	1,400	1,700	1,900	2,200	2,200	2,500	2,650	2,969	3,800	4,324
North Dakota	18	22	23	22	52	51	66	123	90	98
Ohio	10,901	12,105	13,643	15,271	16,845	18,619	21,070	24,621	27,846	32,148
Oklahoma	10,293	11,512	12,525	14,062	15,245	16,994	20,742	22,135	23,647	24,500
Pennsylvania	17,500	17,391	17,900	18,900	19,700	20,526	21,500	23,000	24,000	24,000
South Dakota	0	0	0	10	10	39	37	40	40	42
Tennessee	7	34	60	143	200	210	360	415	726	820
Texas	27,762	30,779	33,324	36,240	37,819	39,575	42,295	43,395	44,834	46,615
Utah	71	535	171	182	200	226	282	322	659	655
Virginia	179	204	223	268	274	274	290	292	499	581
West Virginia	22,100	22,600	23,575	24,425	25,600	26,925	28,350	29,675	30,700	32,500
Wyoming	1,000	995	888	1,007	1,504	1,888	1,889	1,919	1,933	2,161
Other	18	15	13	11	21	16	28	31	20	52
Federal Waters	NA	2,529	2,818	2,866	2,853	3,907	4,200	4,000	3,552	3,483
TOTAL U.S.	**137,594**	**145,453**	**153,655**	**165,888**	**175,213**	**189,609**	**203,663**	**214,354**	**226,077**	**238,342**

Source: *World Oil*

Notes: Data include gas distillate wells.
Figures as of December 31st each year.

Production

Crude Oil Production

(thous. bbls.)	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	14,706	18,252	19,829	19,161	22,153	20,680	20,014	18,746	19,804	21,581
Alaska	63,398	169,201	448,620	511,335	591,646	587,337	618,910	625,527	630,401	666,233
Arizona	519	427	418	472	406	357	335	237	215	175
Arkansas	18,097	20,202	20,329	18,869	18,210	18,352	18,849	18,849	18,730	19,044
California	326,021	349,609	347,181	352,268	356,923	384,958	401,572	404,688	412,020	423,877
Colorado	38,992	39,460	36,797	32,324	29,802	30,303	30,545	29,050	28,845	30,246
Florida	44,460	46,641	47,536	47,168	42,886	34,773	25,626	19,476	14,462	11,458
Illinois	26,272	25,608	23,362	21,793	22,702	24,090	27,710	29,200	28,868	30,265
Indiana	4,630	5,314	4,689	4,715	4,978	4,721	5,563	5,321	5,526	5,168
Kansas	58,714	57,496	56,586	56,995	60,151	65,810	70,525	71,594	75,729	75,407
Kentucky	7,483	6,581	5,724	5,514	5,946	6,548	7,349	7,886	7,777	7,790
Louisiana	606,501	562,905	532,740	489,687	469,141	449,315	458,395	479,569	515,268	508,239
Michigan	30,421	32,965	34,667	34,862	33,808	32,665	31,462	31,736	30,554	27,300
Mississippi	46,072	43,022	42,024	37,327	35,945	34,204	33,047	31,455	32,776	30,641
Missouri	61	60	54	91	130	226	202	269	285	243
Montana	32,814	32,680	30,467	29,957	29,584	30,813	30,921	29,225	29,761	29,768
Nebraska	6,182	5,968	5,862	6,068	6,240	6,671	6,872	6,380	6,452	6,943
Nevada	143	661	1,156	1,235	880	700	613	810	1,907	3,039
New Mexico	92,130	87,223	83,365	79,649	75,324	71,568	71,024	75,169	79,336	78,530
New York	857	824	852	855	824	841	834	831	840	1,071
North Dakota	21,725	23,273	24,812	30,914	40,337	45,424	47,271	50,690	52,652	50,857
Ohio	9,994	10,359	11,154	11,953	12,928	13,551	14,571	14,971	15,271	14,988
Oklahoma	161,426	156,382	150,456	143,642	150,140	154,056	158,621	158,604	168,385	162,739
Pennsylvania	3,019	2,715	2,887	2,874	2,651	3,729	4,282	4,282	4,284	4,851
South Dakota	447	632	869	846	765	973	1,158	1,172	1,340	1,596
Tennessee	598	820	593	614	743	918	1,132	1,056	920	786
Texas	1,189,523	1,137,880	1,074,050	1,018,094	977,436	945,132	925,296	902,676	904,774	888,831
Utah	34,804	33,113	31,368	27,728	24,978	25,860	22,440	29,534	34,689	40,792
Virginia	3	2	2	4	10	13	49	65	32	26
West Virginia	2,519	2,518	2,382	2,406	2,336	3,473	3,227	3,628	3,924	3,555
Wyoming	134,149	136,472	137,385	131,890	126,362	130,563	118,300	118,303	124,269	128,514
TOTAL U.S.	**2,976,180**	**3,009,265**	**3,178,216**	**3,121,310**	**3,146,365**	**3,128,624**	**3,156,715**	**3,170,999**	**3,249,696**	**3,274,553**
DAILY AVERAGE	**8,132**	**8,245**	**8,707**	**8,552**	**8,597**	**8,572**	**8,649**	**8,688**	**8,879**	**8,971**

Source: Energy Information Administration

Note: Data include lease condensate

Natural Gas Production

(MMcf)	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	41,427	57,227	85,599	85,815	65,294	79,244	75,003	90,801	101,821	106,648
Alaska	166,072	187,889	203,088	220,754	230,588	242,564	264,364	276,691	289,129	323,781
Arizona	262	240	286	247	214	187	99	132	45	50*
Arkansas	109,533	104,096	106,792	109,452	111,808	92,986	124,611	127,561	135,161	128,700
California	354,334	311,462	311,084	248,206	309,783	380,730	383,977	415,324	476,333	493,990
Colorado	183,972	188,792	183,693	191,239	188,001	195,706	209,892	163,545	173,257	187,101
Florida	43,165	48,171	51,595	50,190	40,638	32,470	22,515	21,056	12,585	10,604
Illinois	1,556	1,003	1,159	1,585	1,574	1,295	1,162	1,030	1,530	1,700*
Indiana	192	183	163	350	463	330	233	135	394	500*
Kansas	829,170	781,289	854,484	797,762	735,035	640,114	429,597	434,736	465,979	513,030
Kentucky	66,137	60,902	70,044	59,520	57,180	61,312	51,924	46,720	61,518	70,000*
Louisiana	7,006,596	7,215,006	7,476,497	7,266,217	6,639,416	6,780,184	6,171,627	5,332,113	5,825,055	5,146,288
Maryland	75	82	88	28	68	56	36	31	60	60*
Michigan	119,262	129,954	148,047	159,731	158,302	152,593	153,051	138,910	144,537	148,360
Mississippi	70,762	82,995	106,579	144,077	175,061	181,238	167,231	151,204	157,911	132,482
Missouri	29	20	0	0	0	0	0	0	4	5*
Montana	42,563	46,819	46,522	53,888	51,867	56,565	56,517	51,967	51,474	53,331
Nebraska	2,511	2,789	2,882	3,208	2,550	2,519	2,280	2,091	2,300	2,500*
New Mexico	1,230,976	1,202,973	1,174,198	1,181,363	1,149,781	1,134,078	991,178	895,279	957,366	896,306
New York	9,235	10,682	13,900	15,500	15,643	16,074	15,877	17,836	25,200	31,385*
North Dakota	31,470	29,173	30,499	18,468	42,346	42,573	53,818	69,319	70,496	78,263
Ohio	88,891	99,327	114,098	123,431	138,856	141,134	138,391	151,300	186,480	190,000*
Oklahoma	1,726,513	1,769,519	1,773,582	1,835,366	1,891,824	2,019,199	1,934,412	1,730,061	1,985,869	1,787,735
Oregon	0	0	0	2,000	5,000	5,000	3,399	3,159	2,790	3,000*
Pennsylvania	89,386	91,717	97,763	96,313	97,439	122,454	121,111	118,372	166,342	180,000*
South Dakota	0	0	0	914	1,193	1,155	2,331	1,846	1,947	2,500*
Tennessee	47	263	468	941	1,241	1,719	2,976	3,950	5,022	5,000*
Texas	7,191,859	7,051,027	6,548,184	7,174,623	7,115,889	6,910,021	6,468,817	5,938,561	6,185,021	6,011,826
Utah	57,416	60,696	58,416	58,605	87,766	91,191	94,255	63,158	74,698	68,500
Virginia	6,937	8,220	8,492	8,544	7,812	8,903	6,880	4,346	8,901	10,000*
West Virginia	153,322	152,767	148,564	150,505	156,551	161,251	150,850	130,078	143,730	136,894
Wyoming	328,768	330,180	357,267	414,416	409,541	410,499	424,657	443,988	516,683	497,278
TOTAL U.S.	**19,952,438**	**20,025,463**	**19,974,033**	**20,473,258**	**19,888,724**	**19,965,344**	**18,523,071**	**16,825,300**	**18,229,638**	**17,217,817**

Source: Energy Information Administration

Note: Data represent marketed production.

* Estimated by IPAA

Drilling Costs

	Total Costs	Per Well	Per Foot
	(thous. $)	($)	
1970	2,578,682	94,885	18.84
1971	2,371,492	94,703	19.03
1972	2,814,166	106,424	20.76
1973	3,074,532	117,152	22.50
1974	4,366,989	138,718	28.93
1975	6,571,214	177,793	36.99
1976	7,461,680	191,615	40.46
1977	9,956,453	229,181	46.82
1978	13,061,000	279,950	56.64
1979	16,078,930	331,367	67.71
1980	22,800,356	367,682	77.03
1981	36,665,457	453,691	94.30
1982	39,428,119	514,378	108.73
1983	25,104,543	371,721	83.34
1984	25,206,219	326,463	71.90

Source: Joint Association Survey

Cost Indices

	Oil Field Machinery	Oil Well Casing	Line Pipe (carbon)	Oil Field Wages
	(1967 = 100)			
1966	96.5	96.2	97.9	96.3
1967	100.0	100.0	100.0	100.0
1968	106.4	101.5	103.9	104.3
1969	112.7	104.5	109.2	110.8
1970	118.4	109.1	112.8	117.9
1971	122.6	120.7	124.7	127.7
1972	127.3	127.3	133.7	139.1
1973	133.2	133.2	139.1	147.4
1974	157.8	170.7	189.8	163.1
1975	196.3	211.5	227.8	184.9
1976	217.7	223.1	234.6	203.4
1977	236.6	244.3	260.5	220.3
1978	261.6	271.6	296.6	247.7
1979	289.7	285.8	303.4	270.2
1980	335.7	326.5	336.3	298.5
1981	401.0	407.5	394.2	331.7
1982	434.5	451.9	417.0	363.4
1983	428.4	406.1	405.6	380.9
1984	424.9	386.0	405.6	392.9
1985	426.3	381.4	405.1	409.5

Source: Bureau of Labor Statistics
Wage index computed by IPAA

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Drilling Summary—1984

	Oil Wells	Gas Wells	Dry Holes	Total Wells
Number of Wells Drilled	38,976	14,983	23,251	77,210
Footage Drilled *(thous. ft.)*	154,018	82,644	113,927	350,589
Average Depth *(ft.)*	3,952	5,516	4,900	4,541
Total Cost *(mill. $)*	10,214	7,339	7,653	25,206
Average Cost per Well *($)*	262,065	489,808	329,155	326,463
Average Cost per Foot *($)*	66.32	88.80	67.18	71.90

Source: Joint Association Survey. 1985 data unavailable
Note: Includes all costs incurred through Christmas tree.

Energy Consumption

	Crude Oil and NGL	Natural Gas	Other Sources	Total Energy	Energy Use Per Capita
	(Quad. BTU)				(Mill. BTU)
1956	17.94	9.61	12.83	40.38	240
1957	17.93	10.19	12.36	40.48	236
1958	18.53	10.66	11.16	40.35	232
1959	19.32	11.72	11.10	42.14	238
1960	19.92	12.39	11.49	43.80	243
1961	20.22	12.93	11.31	44.46	243
1962	21.05	13.73	11.75	46.53	250
1963	21.70	14.40	12.22	48.32	256
1964	22.30	15.29	12.91	50.50	264
1965	23.25	15.77	13.66	52.68	272
1966	24.40	17.00	14.26	55.66	285
1967	25.28	17.94	14.35	57.57	292
1968	26.98	19.21	14.81	61.00	306
1969	28.34	20.68	15.17	64.19	319
1970	29.52	21.79	15.12	66.43	326
1971	30.56	22.47	14.86	67.89	328
1972	32.95	22.70	15.61	71.26	340
1973	34.84	22.51	16.93	74.28	351
1974	33.45	21.73	17.36	72.54	340
1975	32.73	19.95	17.87	70.55	327
1976	35.17	20.35	18.84	74.36	342
1977	37.12	19.93	19.24	76.29	347
1978	37.97	20.00	20.12	78.09	352
1979	37.12	20.67	21.11	78.90	351
1980	34.20	20.39	21.37	75.96	334
1981	31.93	19.93	22.13	73.99	322
1982	30.23	18.51	22.10	70.84	305
1983	30.05	17.36	23.09	70.50	301
1984	31.05	18.51	24.55	74.11	313
1985	30.85	17.76	25.22	73.83	309

Source: Energy Information Administration

Crude Oil Production By Chase Group

(thous. b/d)	Chase Group	All Other	Total
1955	4,173	2,634	6,807
1956	4,406	2,745	7,151
1957	4,487	2,683	7,170
1958	4,141	2,569	6,710
1959	4,379	2,675	7,054
1960	4,423	2,612	7,035
1961	4,510	2,673	7,183
1962	4,706	2,626	7,332
1963	4,905	2,637	7,542
1964	5,017	2,597	7,614
1965	5,269	2,535	7,804
1966	5,628	2,667	8,295
1967	6,070	2,740	8,810
1968	6,312	2,784	9,096
1969	6,418	2,820	9,238
1970	6,814	2,823	9,637
1971	6,747	2,716	9,463
1972	6,730	2,711	9,441
1973	6,570	2,638	9,208
1974	6,173	2,601	8,774
1975	5,891	2,484	8,375
1976	5,587	2,545	8,132
1977	5,668	2,577	8,245
1978	6,193	2,514	8,707
1979	5,944	2,608	8,552
1980	6,071	2,526	8,597
1981	5,932	2,640	8,572
1982	5,964	2,685	8,649
1983	5,890*	2,798	8,688
1984	5,870*	3,009	8,879
1985	5,850*	3,121	8,971
Excluding Alaska North Slope			
1977	5,358	2,576	7,934
1978	5,103	2,514	7,617
1979	4,661	2,608	7,269
1980	4,554	2,526	7,080
1981	4,408	2,640	7,048
1982	4,343	2,685	7,028
1983	4,244*	2,798	7,042
1984	4,208*	3,009	7,217
1985	4,071*	3,121	7,192

Source: Chase Manhattan Bank

* Estimated by IPAA

Refiner Acquisition Cost of Crude Oil

($/bbl.)	Domestic	Imported	Composite
1968	3.21	2.90	3.17
1969	3.37	2.80	3.29
1970	3.46	2.96	3.40
1971	3.68	3.17	3.60
1972	3.67	3.22	3.58
1973	4.17	4.08	4.15
1974	7.18	12.52	9.07
1975	8.39	13.93	10.38
1976	8.84	13.48	10.89
1977	9.55	14.53	11.96
1978	10.61	14.57	12.46
1979	14.27	21.67	17.72
1980	24.23	33.89	28.07
1981	34.33	37.05	35.24
1982	31.22	33.55	31.87
1983	28.87	29.30	28.99
1984	28.53	28.88	28.63
1985	26.65	27.03	26.76

Source: Energy Information Administration

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Petroleum Information

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Stripper Wells

Stripper Well Production

(thous. bbls.)	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Alabama	117	162	139	121	144	125	122	158	173	172
Arizona	5	6	7	5	5	16	23	24	26	29
Arkansas	5,044	5,199	6,172	7,754	7,231	5,690	5,465	5,132	7,118	5,653
California	60,574	52,246	51,410	49,558	45,521	44,110	54,804	55,419	55,993	57,125
Colorado	1,953	2,013	2,017	2,018	1,955	1,989	2,159	2,204	3,630	3,330
Illinois	25,215	24,936	23,614	21,160	20,325	20,167	22,238	23,989	25,889	25,984
Indiana	4,032	4,471	5,255	4,560	4,557	4,019	4,781	4,568	4,336	4,401
Kansas	43,707	44,433	44,190	44,461	43,948	44,545	45,010	47,629	48,267	48,665
Kentucky	6,183	6,173	5,421	4,713	4,549	4,573	4,479	5,144	5,522	6,630
Louisiana	7,574	8,176	7,740	7,916	7,681	7,657	9,012	9,172	9,000	9,844
Michigan	4,760	4,602	6,233	5,602	5,621	4,717	2,449	2,820	3,145	3,228
Mississippi	649	1,215	1,349	1,234	1,601	1,890	3,805	2,237	1,286	1,330
Missouri	57	60	60	53	54	127	226	53	271	271
Montana	3,579	2,947	3,255	2,805	2,830	2,710	2,748	2,881	3,104	2,577
Nebraska	1,545	1,758	2,012	2,025	1,866	2,237	2,510	2,879	3,418	2,974
Nevada	0	0	0	0	0	0	9	0	0	0
New Mexico	11,083	11,141	11,547	11,831	12,068	12,924	13,463	14,207	14,722	15,016
New York	875	857	813	852	855	824	849	719	774	680
North Dakota	930	1,075	1,146	1,197	1,250	1,225	1,386	1,493	1,537	1,756
Ohio	6,705	6,996	7,251	7,808	8,367	9,050	9,486	10,199	10,480	10,690
Oklahoma	72,531	73,459	74,400	74,175	76,001	79,945	83,249	94,237	94,430	94,046
Pennsylvania	3,199	2,950	2,659	2,565	2,817	2,651	3,606	3,718	3,951	4,242
South Dakota	18	21	15	17	22	25	39	55	44	82
Tennessee	126	140	194	270	388	293	291	NA	584	510
Texas	126,018	129,700	127,886	131,211	136,590	141,825	145,940	143,929	153,689	152,720
Utah	98	262	136	135	180	220	377	NA	543	1,089
Virginia	3	3	2	2	4	10	13	49	22	27
West Virginia	2,478	2,400	2,384	2,255	2,382	2,313	2,607	2,683	3,116	3,270
Wyoming	5,107	4,791	5,225	5,333	5,597	5,211	5,367	6,355	6,944	7,119
TOTAL U.S.	**394,163**	**392,191**	**392,532**	**391,633**	**394,405**	**401,095**	**426,502**	**441,951**	**462,013**	**463,459**

Sources: Interstate Oil Compact Commission and the National Stripper Well Association

Notes: 1985 data unavailable.
Totals may not add due to rounding.

Producing Stripper Wells

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Alabama	75	71	78	69	78	68	73	92	95	98
Arizona	6	7	7	7	8	10	12	14	17	14
Arkansas	6,100	6,025	6,736	6,822	6,767	6,820	5,847	5,167	7,218	4,738
California	32,124	29,983	28,328	24,198	25,957	25,400	26,566	26,354	26,358	26,650
Colorado	881	942	990	1,016	1,074	1,143	1,255	1,354	1,861	1,690
Illinois	23,222	23,275	23,499	23,622	23,860	24,501	25,472	26,813	28,566	29,942
Indiana	4,654	4,853	5,056	5,038	5,092	5,022	5,874	5,353	5,854	6,134
Kansas	40,597	41,764	42,273	43,154	44,686	41,876	42,924	44,521	47,592	45,749
Kentucky	13,690	13,817	14,046	13,953	14,028	14,075	14,130	14,275	17,000	16,433
Louisiana	12,723	13,185	13,189	13,600	12,131	15,889	15,950	12,010	16,500	16,500
Michigan	3,330	3,260	3,276	3,331	3,405	3,325	3,057	3,361	3,367	3,500
Mississippi	310	617	654	657	813	1,523	2,138	1,923	837	837
Missouri	163	173	161	144	157	301	440	530	548	548
Montana	1,873	1,918	1,945	1,983	1,996	2,082	2,058	2,243	2,673	3,085
Nebraska	638	812	919	987	1,037	1,223	1,414	1,585	1,672	1,707
Nevada	0	0	0	0	0	4	0	0	0	0
New Mexico	10,274	10,544	10,956	11,401	11,829	12,519	13,226	13,882	14,280	14,749
New York	5,231	4,916	4,913	4,700	5,000	5,220	5,345	5,259	4,228	4,532
North Dakota	569	655	687	741	782	878	836	959	922	1,016
Ohio	15,482	15,586	16,122	17,006	18,222	19,650	21,982	22,966	24,263	25,129
Oklahoma	58,736	53,357	56,239	59,971	64,893	66,128	69,781	73,328	77,729	82,431
Pennsylvania	31,661	31,274	28,400	27,768	27,925	25,991	25,285	23,438	21,831	19,540
South Dakota	9	10	16	11	10	12	23	33	33	30
Tennessee	133	159	213	265	318	387	398	NA	716	689
Texas	89,027	91,498	92,887	96,713	98,487	103,594	107,596	111,671	117,178	126,202
Utah	48	77	74	95	106	125	196	NA	217	348
Virginia	7	7	4	5	7	8	12	20	26	32
West Virginia	13,680	13,800	13,875	13,925	14,000	14,150	14,300	14,550	14,900	15,200
Wyoming	2,629	3,148	3,387	3,453	3,642	3,252	3,349	4,792	5,020	5,020
TOTAL U.S.	**367,872**	**365,733**	**368,930**	**374,635**	**386,310**	**395,176**	**409,539**	**416,493**	**441,501**	**452,543**

Sources: Interstate Oil Compact Commission and the National Stripper Well Association

Notes: 1985 data unavailable.
Figures as of December 31st each year.

Prices

Crude Oil Wellhead Prices

($/bbl.)	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	10.57	9.67	10.52	11.97	20.57	35.80	32.32	30.07	29.39	25.96
Alaska	5.03	6.14	5.23	10.25	16.52	23.60	20.08	17.92	18.13	17.15
Arizona	5.25	5.25	5.92	8.29	12.30	24.00*	31.00*	30.00*	28.00*	27.00*
Arkansas	9.65	9.93	10.63	14.72	24.17	33.69	30.12	28.28	28.15	25.82
California	6.15	7.31	8.58	12.78	23.87	26.80	24.58	22.61	22.09	22.13
Colorado	9.65	10.10	10.84	13.28	22.91	35.69	31.56	28.92	28.09	25.64
Florida	11.24	11.67	12.00	13.07	18.84	25.00*	32.00*	31.10*	31.00*	30.00*
Illinois	10.18	12.27	13.81	23.49	35.78	36.03	31.69	29.12	28.76	26.90
Indiana	10.89	12.46	13.70	23.28	35.91	36.07	31.66	29.06	28.72	26.82
Kansas	9.50	10.00	13.20	21.57	34.20	35.80	30.79	28.45	27.99	25.33
Kentucky	11.42	13.02	13.73	22.55	34.98	35.90	31.19	28.60	28.24	26.19
Louisiana	7.51	8.33	9.03	11.42	19.87	35.45	32.44	30.02	29.67	27.24
Michigan	10.84	11.00	11.86	14.47	23.54	35.74	31.80	28.93	28.54	26.17
Mississippi	7.14	8.20	7.91	10.74	20.85	30.47	29.04	26.76	27.26	25.51
Missouri	13.30*	12.50*	12.25*	25.68*	37.75*	34.38*	31.25*	31.20*	27.50*	27.00*
Montana	8.42	8.58	9.04	12.03	20.53	34.69	31.25	28.80	28.07	25.29
Nebraska	8.99	10.46	11.40	18.13	30.60	35.32	30.98	28.58	27.83	25.43
Nevada	10.35*	11.50*	12.00*	11.54*	16.65*	23.96*	23.95*	23.80*	25.80*	26.00*
New Mexico	8.84	9.23	10.17	14.33	24.06	35.04	31.82	29.26	28.69	26.78
New York	12.25	14.20	14.74	23.78	37.39	34.15	30.91	28.19	27.70	25.19
North Dakota	7.84	8.00	9.75	13.64	26.42	35.63	31.89	29.27	28.39	25.32
Ohio	11.77	13.16	13.80	22.79	36.64	36.11	30.90	28.14	27.71	25.11
Oklahoma	9.19	9.98	11.30	17.53	29.25	35.43	32.04	29.67	29.11	26.27
Pennsylvania	12.16	14.29	14.72	24.13	37.46	36.03	30.77	28.28	27.71	25.05
South Dakota	12.35	12.00	12.16	15.35	28.81	35.55	31.63	29.10	28.36	25.80
Tennessee	13.72	13.75	12.70	20.26	34.29	33.00*	32.10*	32.00*	28.00*	27.50*
Texas	8.59	8.78	9.29	12.65	21.84	35.06	31.77	29.35	28.87	26.80
Utah	9.30	9.33	9.98	11.41	19.79	34.14	30.50	28.12	27.21	24.13
Virginia	11.68*	12.50*	12.50*	24.80*	37.21*	36.25*	32.35*	32.25*	27.28*	27.00*
West Virginia	12.00	13.97	14.48	23.35	36.92	35.63	29.98	27.27	26.90	24.35
Wyoming	7.24	7.62	9.16	11.73	21.34	32.30	29.37	27.19	26.73	24.67
TOTAL U.S.	**8.19**	**8.57**	**9.00**	**12.64**	**21.59**	**31.77**	**28.52**	**26.19**	**25.88**	**24.08**

Source: Energy Information Administration

* Estimated by IPAA

Note: Data represent the average first purchase prices of crude oil at the lease or wellhead.

Natural Gas Wellhead Prices

($/Mcf)	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	.99	1.47	1.50	2.04	3.19	4.77	3.44	4.28	3.73	2.72
Alaska	.39	.40	.52	.52	.73	.62	.63	.73	.73	1.71
Arizona	.28	.33	.37	.41	1.15	1.85	2.59	3.08	2.90	2.44
Arkansas	.53	.58	.75	.96	.70	1.81	2.13	2.29	2.54	2.05
California	.94	1.17	1.36	1.70	3.13	2.57	3.09	3.57	3.80	2.65
Colorado	.48	.81	.84	1.41	1.47	1.97	3.17	3.38	3.43	2.90
Florida	.98	1.09	1.39	1.57	1.73	2.71	2.46	2.33	2.57	2.02
Illinois	.99	1.20	1.29	1.86	1.90	2.47	2.62	2.84	2.78	2.06
Indiana	.52	.69	.71	1.05	1.35	2.08	1.55	2.09	3.38	2.51
Kansas	.42	.48	.57	.76	.77	.92	1.51	1.57	1.49	1.20
Kentucky	.55	.55	.58	.95	.89	1.01	1.52	1.51	1.70	1.29
Louisiana	.46	.70	.84	1.11	1.61	2.07	2.60	2.67	2.73	2.66
Maryland	.32	.39	.61	1.04	.46	.48	.78	.55	.55	.60
Michigan	.89	1.01	1.20	1.74	2.35	2.86	3.19	3.58	3.76	2.65
Mississippi	.71	.73	1.15	1.60	2.32	3.21	3.91	3.78	3.47	3.15
Missouri	.34	.40	NA	NA	NA	NA	NA	NA	3.75	3.95
Montana	.45	.72	.85	1.21	1.45	1.91	2.15	2.41	2.46	2.39
Nebraska	.51	.65	.68	.85	.83	1.45	1.99	2.93	2.24	3.01
New Mexico	.56	.81	.99	1.37	1.76	2.13	2.47	2.68	2.71	2.67
New York	1.13	1.16	1.19	1.27	1.95	2.67	3.75	3.85	4.00	3.37
North Dakota	.34	.35	.46	1.28	1.19	1.94	2.30	2.27	2.26	1.90
Ohio	1.02	1.40	1.57	1.81	1.98	2.17	2.71	3.24	3.19	3.05
Oklahoma	.50	.79	.90	1.12	1.51	1.88	2.74	2.83	2.72	2.47
Oregon	NA	NA	NA	2.00	2.40	2.60	3.33	3.33	2.78	2.60
Pennsylvania	.68	.80	.86	1.33	2.13	2.33	2.80	3.00	3.25	2.85
South Dakota	NA	NA	NA	2.11	2.45	2.75	3.08	3.37	3.67	2.50
Tennessee	.51	.74	1.64	1.70	1.76	2.55	3.00	2.50	3.50	2.40
Texas	.72	.90	.99	1.23	1.56	1.87	2.17	2.36	2.45	2.32
Utah	.50	.61	.64	.72	1.12	1.10	3.06	3.40	4.08	3.13
Virginia	1.14	1.26	1.31	1.68	2.85	2.15	3.69	3.30	3.00	2.02
West Virginia	.57	.61	.66	1.05	3.00	3.00	3.20	3.10	3.45	3.75
Wyoming	.41	.64	.79	1.13	1.92	2.77	3.22	3.18	3.32	3.01
TOTAL U.S.	**.58**	**.79**	**.91**	**1.18**	**1.60**	**1.98**	**2.46**	**2.59**	**2.66**	**2.48**

Source: Energy Information Administration

Note: 1985 prices are estimated by IPAA.

Wholesale Prices—Total U.S.

	Motor Gasoline	Kerosene	Distillate Fuel Oil	Residual Fuel Oil	Average of Four Products		Crude Oil
	(¢/gal.)				(¢/gal.)	($/bbl.)	($/bbl.)
1935	5.42	4.10	3.26	1.74	3.93	1.65	0.97
1936	6.32	3.94	3.39	1.81	4.41	1.85	1.09
1937	6.68	4.81	3.96	2.08	4.80	2.02	1.17
1938	5.97	4.57	3.62	1.55	4.22	1.77	1.14
1939	5.79	4.16	3.34	1.50	4.06	1.71	1.04
1940	5.26	4.36	3.55	1.74	3.91	1.64	1.02
1941	6.05	4.40	3.67	2.05	4.41	1.85	1.14
1942	6.14	4.56	3.91	2.18	4.54	1.91	1.20
1943	6.32	4.72	4.09	2.34	4.71	1.98	1.20
1944	6.47	4.78	4.34	2.49	4.87	2.05	1.20
1945	6.48	5.18	5.33	2.60	4.93	2.07	1.20
1946	6.60	5.70	5.06	3.05	5.26	2.21	1.39
1947	8.57	7.28	6.51	4.31	6.92	2.91	1.93
1948	10.53	9.92	8.94	5.72	8.81	3.70	2.60
1949	10.71	9.11	7.72	3.31	7.96	3.34	2.54
1950	10.86	9.39	7.97	3.98	8.29	3.48	2.51
1951	11.40	9.85	8.50	4.42	8.79	3.69	2.53
1952	11.38	9.90	8.52	3.84	8.62	3.62	2.53
1953	12.01	10.23	8.83	3.73	8.96	3.76	2.68
1954	11.66	10.40	8.94	3.97	8.88	3.73	2.78
1955	11.62	10.53	9.08	4.53	9.06	3.81	2.77
1956	11.75	10.99	9.45	5.30	9.43	3.96	2.79
1957	12.34	11.54	10.05	6.15	10.10	4.24	3.09
1958	11.74	10.96	9.39	4.82	9.27	3.89	3.01
1959	11.64	11.26	9.31	4.79	9.22	3.87	2.90
1960	11.61	11.17	8.79	4.88	9.15	3.84	2.88
1961	11.62	11.49	9.10	4.85	9.21	3.87	2.89
1962	11.52	11.42	9.11	4.78	9.13	3.84	2.90
1963	11.35	11.51	9.18	4.61	9.01	3.79	2.89
1964	11.27	10.93	8.65	4.50	8.83	3.71	2.88
1965	11.52	11.28	9.04	4.81	9.12	3.83	2.86
1966	11.59	11.49	9.09	4.73	9.15	3.84	2.88
1967	11.84	11.96	9.71	4.53	9.33	3.92	2.92
1968	11.55	12.03	9.84	4.30	9.14	3.84	2.94
1969	11.80	11.98	10.06	4.20	9.27	3.89	3.09
1970	12.33	12.43	10.45	6.14	10.20	4.28	3.18
1971	12.70	12.90	10.75	7.76	10.94	4.59	3.39
1972	12.70	12.87	10.61	7.60	10.87	4.57	3.39
1973	14.72	14.08	12.61	8.45	12.49	5.25	3.89
1974	25.53	24.02	22.57	20.43	23.48	9.86	6.87
1975	30.27	27.41	26.09	22.03	27.03	11.35	7.67
1976	33.82	31.67	30.38	21.66	29.55	12.41	8.19
1977	36.99	35.81	34.41	25.87	33.21	13.95	8.57
1978	39.22	37.23	35.66	23.00	33.72	14.16	9.00
1979	56.84	56.60	54.47	33.63	49.50	20.79	12.64
1980	87.40	80.26	78.21	44.43	72.77	30.56	21.59
1981	101.63	101.03	97.20	61.17	88.75	37.28	31.77
1982	94.56	97.18	91.95	57.80	83.27	34.97	28.52
1983	86.97	85.12	80.05	57.30	76.94	32.32	26.19
1984	81.14	84.75	79.62	59.14	74.49	31.29	25.88
1985	81.11	81.69	76.66	56.41	73.06	30.69	24.08

Sources: Product prices from IPAA, based on low quotes from *Platt's Oilgram Price Report*. Crude oil wellhead prices from Energy Information Administration.

Notes: Data reflect price trends only, not actual sale prices. Motor gasoline prices represent leaded fuel prior to 1982, and unleaded thereafter.

Wholesale Prices—East of California

	Motor Gasoline	Kerosene	Distillate Fuel Oil	Residual Fuel Oil	Average of Four Products		Crude Oil
	(¢/gal.)				(¢/gal.)	($/bbl.)	($/bbl.)
1935	5.45	4.12	3.37	1.79	3.97	1.67	1.00
1936	6.12	4.01	3.52	1.86	4.35	1.83	1.11
1937	6.23	4.76	4.07	2.19	4.62	1.94	1.21
1938	5.45	4.39	3.78	1.62	4.00	1.68	1.17
1939	5.29	3.99	3.55	1.57	3.85	1.62	1.04
1940	4.96	4.33	3.80	1.90	3.84	1.61	1.04
1941	5.97	4.38	3.90	2.19	4.45	1.87	1.17
1942	6.28	4.57	4.17	2.26	4.67	1.96	1.23
1943	6.41	4.69	4.19	2.31	4.76	2.00	1.23
1944	6.42	4.73	4.17	2.46	4.81	2.02	1.23
1945	6.36	4.72	4.16	2.59	4.81	2.02	1.23
1946	6.40	5.38	4.84	3.08	5.12	2.15	1.43
1947	8.45	7.14	6.44	4.48	6.89	2.89	1.97
1948	10.21	9.62	8.94	5.90	8.70	3.65	2.63
1949	10.39	8.36	7.34	3.10	7.64	3.21	2.60
1950	10.77	8.76	7.79	4.10	8.22	3.45	2.59
1951	11.26	9.31	8.43	4.47	8.70	3.65	2.58
1952	11.25	9.38	8.40	3.76	8.48	3.56	2.58
1953	11.79	9.40	8.45	3.59	8.71	3.66	2.71
1954	11.43	9.55	8.71	3.92	8.68	3.64	2.82
1955	11.42	9.76	9.02	4.66	8.95	3.76	2.81
1956	11.55	10.26	9.48	5.34	9.31	3.91	2.82
1957	12.06	10.64	9.95	6.03	9.86	4.14	3.09
1958	11.61	9.87	9.12	4.56	9.03	3.79	3.03
1959	11.57	10.14	9.36	4.70	9.11	3.83	2.95
1960	11.69	10.01	8.93	4.86	9.14	3.84	2.94
1961	11.72	10.41	9.31	4.82	9.22	3.87	2.95
1962	11.55	10.34	9.27	4.67	9.08	3.82	2.96
1963	11.33	10.44	9.32	4.57	8.96	3.76	2.95
1964	11.29	9.71	8.62	4.56	8.79	3.69	2.93
1965	11.56	10.15	9.00	4.82	9.08	3.81	2.93
1966	11.55	10.41	9.13	4.72	9.08	3.81	2.95
1967	11.76	11.00	9.74	4.55	9.26	3.89	3.00
1968	11.50	11.09	9.81	4.33	9.08	3.81	3.03
1969	11.82	11.03	9.89	4.34	9.25	3.88	3.19
1970	12.57	11.59	10.32	6.35	10.32	4.33	3.27
1971	12.81	12.18	10.66	7.55	10.88	4.57	3.48
1972	12.75	12.14	10.58	7.36	10.78	4.53	3.48
1973	14.83	13.64	12.47	8.48	12.51	5.25	3.99
1974	25.10	24.00	22.20	21.62	23.57	9.90	7.09
1975	30.23	27.61	25.98	23.06	27.31	11.47	7.91
1976	33.71	31.42	29.80	22.24	29.57	12.42	8.50
1977	36.83	36.33	34.57	25.99	33.21	13.95	8.83
1978	38.78	38.00	36.04	23.46	33.73	14.17	9.80
1979	56.29	56.51	53.96	32.63	48.85	20.52	13.20
1980	87.04	80.66	78.12	44.34	72.57	30.48	22.67
1981	101.56	102.36	98.75	61.84	89.26	34.49	34.92
1982	94.41	99.03	92.51	57.30	83.20	34.95	31.72
1983	87.64	87.03	80.77	56.36	77.19	32.42	29.34
1984	81.10	87.29	80.78	58.20	74.49	31.29	28.95
1985	80.87	82.82	76.53	54.73	72.48	30.44	26.56

Sources: Product prices from IPAA, based on low quotes from *Platt's Oilgram Price Report*. Crude oil wellhead prices derived from Energy Information Administration data.

Notes: Data reflect price trends only, not actual sale prices. Motor gasoline prices represent leaded fuel prior to 1982, and unleaded thereafter.

Miscellaneous

Severance and Production Taxes

(thous. $)	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	9,229	11,529	15,502	17,310	30,019	55,757	58,036	72,486	114,302	84,215
Alaska	25,896	52,946	107,721	251,636	830,520	1,170,090	1,581,116	1,493,700	1,393,100	1,358,344
Arkansas	6,689	9,206	9,573	11,261	17,858	27,047	24,602	22,812	21,329	20,438
California	5,326	6,841	8,338	9,103	9,025	10,249	11,840	14,196	17,018	15,146
Colorado	5,747	6,033	6,376	7,089	9,535	18,010	35,867	23,251	20,598	18,480
Florida	26,371	26,438	42,768	49,306	57,317	95,240	79,387	50,835	28,837	21,629
Indiana	509	723	686	1,159	1,756	1,835	1,764	1,578	1,546	1,398
Kansas	39,870	50,178	55,625	61,525	95,921	104,913	118,304	182,119	243,011	241,700
Kentucky	418	408	395	404	876	12,544	13,737	14,283	13,461	23,735
Louisiana	507,140	485,339	466,346	458,009	513,151	803,147	971,677	859,930	803,183	731,760
Maryland	5	3	4	6	4	3	2	1	3	1
Michigan	11,886	9,829	12,416	15,454	48,936	85,554	87,867	83,188	82,556	81,704
Mississippi	23,233	24,501	27,756	34,974	69,011	108,145	113,669	99,159	96,888	82,382
Montana	7,009	7,412	7,731	10,550	16,968	29,783	50,075	44,237	56,696	44,200
Nebraska	1,113	1,241	1,318	2,018	3,655	4,776	5,969	4,325	5,128	4,455
Nevada	NA	NA	NA	NA	NA	4	3	25	98	152
New Mexico	103,860	132,517	151,820	185,349	287,152	369,331	348,437	347,548	381,537	365,029
North Dakota	8,617	9,604	11,100	15,094	53,593	91,210	126,138	166,700	160,436	136,200
Ohio	1,063	1,146	1,246	1,431	1,579	1,731	1,333	1,856	4,396	5,752
Oklahoma	153,043	193,614	233,100	283,791	437,306	601,846	744,629	778,169	709,917	709,364
Oregon	0	0	0	0	0	0	427	416	318	429
South Dakota	58	68	71	456	764	1,270	1,707	1,707	1,557	1,824
Tennessee	25	28	32	116	378	530	931	1,398	1,201	980
Texas	795,903	902,801	955,051	1,026,169	1,527,867	2,204,602	2,373,846	2,251,314	2,215,647	2,163,018
Utah	6,528	6,441	6,643	6,978	10,584	16,041	22,296	26,021	38,443	45,427
West Virginia	5,068	7,951	9,722	12,002	21,852	28,591	37,609	36,590	44,125	50,777
Wyoming	37,959	41,457	48,179	53,392	67,302	260,698	270,372	255,798	270,180	244,316
TOTAL U.S.	**1,782,565**	**1,988,254**	**2,179,519**	**2,514,582**	**4,112,929**	**6,102,947**	**7,081,640**	**6,833,642**	**6,725,511**	**6,452,855**

Sources: Various state and industry contacts

Notes: Includes state and local taxes.
States vary on the use of fiscal or calendar year data.

Product Consumption—1985

(thous. bbls.)	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel	Asphalt	Propane	All Other	Total Products
Alabama	41,199	2,914	16,364	1,796	4,170	3,517	8,688	78,648
Alaska	9,112	14,083	8,869	762	538	276	4,178	37,818
Arizona	36,549	3,739	7,386	286	2,845	819	6,411	58,035
Arkansas	26,258	614	11,498	674	1,402	3,239	5,425	49,110
California	294,592	55,372	81,128	56,856	15,369	13,519	64,187	581,023
Colorado	39,947	7,715	11,234	167	3,444	3,118	8,150	73,775
Connecticut	29,406	1,075	12,590	21,291	2,325	1,265	8,439	76,391
Delaware	8,618	156	5,823	1,857	918	1,544	2,349	21,265
Dist. of Columbia	3,570	101	3,028	963	20	†	954	8,636
Florida	125,450	17,830	30,317	28,956	7,398	7,625	27,021	244,597
Georgia	70,184	14,914	20,404	2,279	5,083	5,038	14,642	132,544
Hawaii	8,129	11,115	2,618	11,592	342	88	4,208	38,092
Idaho	9,614	339	5,037	357	701	596	2,067	18,711
Illinois	95,700	2,304	27,289	1,026	8,326	6,841	17,571	159,057
Indiana	59,940	15,330	29,210	1,711	5,922	4,931	14,536	131,580
Iowa	33,986	555	16,186	388	2,246	8,018	7,623	69,002
Kansas	54,469	3,824	29,562	762	1,887	35,005	15,587	141,096
Kentucky	38,860	3,116	18,701	290	2,078	3,228	8,231	74,504
Louisiana	55,188	11,110	39,814	27,831	2,037	12,397	18,427	166,804
Maine	12,471	533	7,391	8,803	2,425	682	4,012	36,317
Maryland	43,787	2,578	16,904	7,155	5,027	1,644	9,575	86,670
Massachusetts	51,516	6,847	32,855	30,841	1,166	2,039	15,557	140,821
Michigan	96,806	5,085	24,471	1,782	3,085	8,624	17,369	157,222
Minnesota	57,395	7,813	24,607	1,140	5,537	8,702	13,064	118,258
Mississippi	30,870	3,075	21,187	4,988	2,280	7,339	8,661	78,400
Missouri	56,817	5,810	16,493	381	4,767	4,956	11,081	100,305
Montana	12,107	632	7,108	449	1,624	1,506	2,909	26,335
Nebraska	16,687	596	11,192	298	525	3,348	4,054	36,700
Nevada	12,705	3,465	5,605	77	936	706	2,918	26,412
New Hampshire	5,759	92	5,534	3,297	948	1,375	2,112	19,117
New Jersey	117,227	43,208	80,695	37,024	5,253	2,727	35,536	321,670
New Mexico	18,736	990	7,864	560	1,666	6,680	4,533	41,029
New York	135,650	2,609	75,292	56,331	8,000	5,669	35,215	318,766
North Carolina	71,839	4,392	27,347	5,933	3,829	6,240	14,851	134,431
North Dakota	9,039	216	8,183	231	1,162	3,969	2,832	25,632
Ohio	109,466	6,759	39,421	2,120	7,036	4,398	21,013	190,213
Oklahoma	47,023	3,577	20,661	701	4,443	7,644	10,438	94,487
Oregon	29,941	2,051	15,882	2,639	3,150	1,270	6,822	61,755
Pennsylvania	106,116	9,921	53,490	18,463	5,453	4,834	24,624	222,901
Rhode Island	9,789	376	7,327	1,932	3,301	312	2,861	25,898
South Carolina	35,430	724	11,526	2,418	1,517	3,055	6,790	61,460
South Dakota	8,948	240	5,618	9	934	1,603	2,155	19,507
Tennessee	63,676	4,710	26,322	557	4,893	2,194	12,711	115,063
Texas	286,197	70,501	132,955	41,512	13,105	77,173	77,178	698,621
Utah	19,518	2,904	7,552	772	1,750	1,309	4,198	38,003
Vermont	2,404	136	2,328	220	366	561	747	6,762
Virginia	63,242	8,272	27,233	7,435	4,476	2,527	14,057	127,242
Washington	47,329	13,187	25,239	9,911	2,263	2,372	12,457	112,758
West Virginia	13,507	200	6,002	1,012	477	412	2,684	24,294
Wisconsin	48,230	1,495	20,499	143	1,876	5,749	9,686	87,678
Wyoming	7,308	167	9,066	316	1,860	3,298	2,734	24,749
TOTAL U.S.	**2,688,306**	**379,367**	**1,160,907**	**409,294**	**172,181**	**295,981**	**634,128**	**5,740,143**

Sources: Energy Information Administration and The Asphalt Institute

†Included with Maryland data

Notes: Middle distillates include kerosene. All other includes naphtha, lubricants, waxes, petroleum coke and still gas. Totals may not add due to rounding.

Hourly Wages

($/hr.)	Oil & Gas Industry	All Mfg. Industry
1950	1.72	1.44
1951	1.85	1.56
1952	1.98	1.65
1953	2.10	1.74
1954	2.15	1.78
1955	2.20	1.86
1956	2.35	1.95
1957	2.47	2.05
1958	2.54	2.11
1959	2.65	2.19
1960	2.69	2.26
1961	2.80	2.32
1962	2.83	2.39
1963	2.92	2.46
1964	2.95	2.53
1965	3.03	2.61
1966	3.13	2.72
1967	3.25	2.83
1968	3.39	3.01
1969	3.60	3.19
1970	3.83	3.36
1971	4.15	3.56
1972	4.52	3.82
1973	4.79	4.09
1974	5.30	4.42
1975	6.01	4.83
1976	6.61	5.22
1977	7.16	5.68
1978	8.05	6.17
1979	8.78	6.70
1980	9.70	7.27
1981	10.78	7.99
1982	11.81	8.50
1983	12.38	8.84
1984	12.77	9.18
1985	13.31	9.52

Source: Bureau of Labor Statistics

Peak Year Data

Seismic Crew Months Worked	1952	7,958	
Acreage Under Lease	1984	587,572	thous. acres
Rotary Rigs Active	1981	3,970	
New-field Wildcat Wells Drilled	1981	8,052	
Exploratory Wells Drilled	1981	17,430	
Oil Wells Drilled	1981	42,520	
Gas Wells Drilled	1981	19,742	
Dry Holes Drilled	1981	26,972	
Total Wells Drilled	1981	91,600	
Total Footage Drilled	1981	412,310	thous. ft.
Crude Oil Production	1970	9,637	thous. b/d
Stripper Well Production	1961	1,622	thous. b/d
Petroleum Imports	1977	8,787	thous. b/d
Petroleum Demand	1978	19,209	thous. b/d
Natural Gas Production	1973	22,648	Bcf
Natural Gas Imports	1979	1,253	Bcf

Financial Statistics

	Rates of Return		Exploration & Development Outlays		
	Oil & Gas Companies	All Mfg. Companies	Larger Companies	Independents	Total Industry
	(%)		(mill. $)		
1960	8.8	9.2	2,412	1,788	4,200
1961	8.7	8.9	2,417	1,583	4,000
1962	8.8	9.8	2,848	1,577	4,425
1963	9.8	10.3	2,452	1,673	4,125
1964	10.1	11.6	2,817	1,633	4,450
1965	11.3	13.0	2,847	1,363	4,210
1966	12.3	13.4	2,990	1,260	4,250
1967	12.6	11.7	3,212	1,153	4,365
1968	12.2	12.1	4,087	1,303	5,390
1969	10.9	11.5	3,768	1,482	5,250
1970	9.9	9.3	3,119	1,656	4,775
1971	9.3	9.7	2,740	1,160	3,900
1972	9.6	10.6	4,225	2,255	6,480
1973	10.5	13.0	5,275	2,865	8,140
1974	14.6	14.9	8,550	3,805	12,355
1975	12.9	11.6	6,830	3,420	10,250
1976	15.2	13.9	8,646	5,864	14,510
1977	14.2	14.2	10,305	6,195	16,500
1978	13.8	15.0	11,275	8,025	19,300
1979	18.2	16.5	15,000	11,750	26,750
1980	18.1	14.1	20,553	15,647	36,200
1981	16.4	14.0	29,765	26,710	56,475
1982	12.8	9.2	30,000	25,400	55,400
1983	10.9	10.5	22,650	18,225	40,875
1984	8.7	12.5	22,050	19,400	41,450
1985	6.5	10.0	N/A	N/A	33,000

Sources: Chase Manhattan Bank, Federal Trade Commission, Department of Commerce and IPAA

Industry Employment—1985

	MINING	MANUFACTURING		TRANSPORTATION		WHOLESALE	RETAIL	TOTAL
	Oil and Gas Extraction	Petroleum Refining	Oils and Greases	Pipelines, Except Gas	Gas Distribution	Petroleum Products	Gasoline Stations	INDUSTRY
Alabama	1,840	358	49	93	3,136	4,844	7,622	17,942
Alaska	8,810	229	2	920	303	513	1,169	11,946
Arizona	126	NA	0	114	1,803	1,512	8,356	11,911
Arkansas	3,869	615	0	283	2,334	2,825	4,710	14,636
California	39,809	27,522	713	1,144	11,412	16,780	62,798	160,178
Colorado	24,193	573	47	101	2,318	2,929	8,601	38,762
Connecticut	160	NA	83	NA	1,299	2,052	9,384	12,978
Delaware	25	901	9	0	310	309	1,475	3,029
Dist. of Columbia	70	96	0	0	666	185	1,054	2,071
Florida	1,051	79	173	62	2,222	7,140	30,156	40,883
Georgia	90	114	116	466	3,872	5,964	16,680	27,302
Hawaii	NA	417	0	0	333	522	3,638	4,910
Idaho	79	0	0	18	444	1,425	2,809	4,775
Illinois	6,858	6,514	821	945	8,373	10,091	26,269	59,871
Indiana	898	2,918	241	454	2,958	3,231	16,161	26,861
Iowa	75	0	58	167	1,404	3,150	11,435	16,289
Kansas	15,460	2,320	312	1,728	4,062	2,618	7,691	34,191
Kentucky	3,394	3,490	70	155	3,039	3,063	9,989	23,200
Louisiana	78,500	11,700	600	1,200	6,700	5,800	8,100	112,600
Maine	NA	NA	NA	NA	NA	1,318	2,627	3,945
Maryland	23	NA	NA	0	1,170	3,059	13,085	17,337
Massachusetts	125	62	376	NA	4,869	3,018	14,462	22,912
Michigan	4,200	1,600	500	250	7,600	5,380	21,250	40,780
Minnesota	NA	NA	NA	198	2,421	2,562	15,845	21,026
Mississippi	8,116	1,652	113	NA	2,164	2,789	5,389	20,223
Missouri	132	40	374	262	4,946	6,240	15,672	27,666
Montana	3,357	916	2	94	128	1,430	2,734	8,661
Nebraska	855	47	160	118	3,177	1,971	6,485	12,813
Nevada	468	61	0	19	661	427	3,515	5,151
New Hampshire	1	0	6	3	268	438	2,788	3,504
New Jersey	118	7,016	1,246	167	2,158	3,713	19,237	33,655
New Mexico	13,554	934	51	241	3,575	1,912	4,063	24,330
New York	2,582	8,696	411	123	6,954	9,516	28,703	56,985
North Carolina	14	198	NA	115	2,563	5,445	9,667	18,002
North Dakota	5,137	229	168	171	1,188	2,350	2,278	11,521
Ohio	10,823	5,931	720	674	7,502	5,881	29,159	60,690
Oklahoma	63,288	7,147	402	1,366	5,762	5,726	6,135	89,826
Oregon	158	0	NA	42	1,540	2,374	7,884	11,998
Pennsylvania	5,600	10,000	900	700	8,800	9,600	25,400	61,000
Rhode Island	9	NA	4	22	863	483	2,514	3,895
South Carolina	24	0	NA	NA	611	3,691	7,274	11,600
South Dakota	134	NA	NA	63	122	1,451	2,736	4,506
Tennessee	422	160	270	43	1,760	4,870	11,821	19,346
Texas	249,098	34,374	1,104	4,866	28,683	25,550	35,956	379,631
Utah	3,850	812	1	82	2,450	1,689	4,779	13,663
Vermont	0	0	0	0	124	309	1,750	2,183
Virginia	174	257	31	86	2,474	7,616	14,996	25,634
Washington	173	1,600	28	83	1,606	2,862	9,841	16,193
West Virginia	5,697	430	139	117	5,271	2,359	3,812	17,825
Wisconsin	14	NA	98	163	2,852	3,263	14,441	20,831
Wyoming	14,643	933	5	298	1,264	1,387	2,957	21,487
TOTAL U.S.	**578,096**	**140,941**	**10,403**	**18,216**	**172,514**	**205,632**	**587,352**	**1,713,154**

Source: Various state agencies

Note: Data differ from the Bureau of Labor Statistics national averages due to confidentiality rules.

Statistical Summary

	PRODUCTION			IMPORTS			TOTAL SUPPLY	TOTAL DEMAND	CRUDE OIL RESERVES		CRUDE OIL PRICE
	Crude Oil	NGL	Total	Crude Oil	Refined Products	Total			Proved Reserves	New Reserves	
	(thous. b/d)								(thous. bbls.)		($/bbl.)
1950	5,407	499	5,906	487	363	850	6,856	6,861	25,268,398	2,562,685	2.51
1951	6,158	561	6,719	491	353	844	7,620	7,487	27,468,031	4,413,954	2.53
1952	6,256	611	6,867	573	379	952	7,847	7,712	27,960,554	2,749,288	2.53
1953	6,458	654	7,112	648	386	1,034	8,176	8,010	28,944,828	3,296,130	2.68
1954	6,342	691	7,033	656	396	1,052	8,117	8,119	29,560,746	2,873,037	2.78
1955	6,807	771	7,578	782	466	1,248	8,870	8,832	30,012,170	2,870,724	2.77
1956	7,151	800	7,951	934	502	1,436	9,439	9,213	30,414,649	2,974,336	2.79
1957	7,170	808	7,978	1,022	552	1,574	9,613	9,395	30,300,405	2,424,800	3.09
1958	6,710	807	7,517	953	747	1,700	9,282	9,394	30,535,917	2,608,242	3.01
1959	7,054	879	7,433	966	814	1,780	9,799	9,737	31,719,347	3,666,745	2.90
1960	7,035	929	7,964	1,016	799	1,815	9,926	10,000	31,613,211	2,365,328	2.88
1961	7,183	991	8,174	1,045	872	1,917	10,270	10,150	31,758,505	2,657,567	2.89
1962	7,332	1,021	8,353	1,127	955	2,082	10,610	10,568	31,389,223	2,180,896	2.90
1963	7,542	1,098	8,640	1,131	992	2,123	10,965	10,951	30,969,990	2,174,110	2.89
1964	7,614	1,155	8,769	1,198	1,060	2,258	11,244	11,225	30,990,510	2,664,767	2.88
1965	7,804	1,210	9,014	1,239	1,229	2,468	11,702	11,700	31,352,391	3,048,079	2.86
1966	8,295	1,284	9,579	1,225	1,348	2,573	12,398	12,283	31,452,127	2,963,978	2.88
1967	8,810	1,409	10,219	1,128	1,409	2,537	13,049	12,867	31,376,670	2,962,122	2.92
1968	9,096	1,504	10,600	1,291	1,549	2,840	13,787	13,624	30,707,117	2,454,635	2.94
1969	9,238	1,590	10,828	1,409	1,757	3,166	14,333	14,370	29,631,862	2,120,036	3.09
1970	9,637	1,660	11,297	1,324	2,095	3,419	15,071	14,956	39,001,335	12,688,918	3.18
1971	9,463	1,694	11,157	1,680	2,245	3,925	15,520	15,437	38,062,957	2,317,732	3.39
1972	9,441	1,744	11,185	2,216	2,525	4,741	16,370	16,589	36,339,408	1,557,848	3.39
1973	9,208	1,738	10,946	3,244	3,012	6,256	17,687	17,539	35,299,839	2,145,831	3.89
1974	8,774	1,688	10,462	3,477	2,635	6,112	17,065	16,873	34,249,956	1,993,573	6.87
1975	8,375	1,632	10,007	4,105	1,951	6,056	16,577	16,531	32,682,127	1,318,463	7.67
1976	8,132	1,604	9,736	5,287	2,026	7,313	17,640	17,684	30,942,166	1,085,291	8.19
1977	8,245	1,618	9,863	6,594	2,193	8,787	19,218	18,674	29,486,402	1,403,780	8.57
1978	8,707	1,567	10,274	6,194	2,008	8,202	18,969	19,209	27,803,760	1,347,616	9.00
1979	8,552	1,583	10,135	6,452	1,937	8,389	19,084	18,987	27,051,289	2,205,673	12.64
1980	8,597	1,573	10,170	5,219	1,646	6,865	17,709	17,600	29,805,000	2,970,000	21.59
1981	8,572	1,609	10,181	4,141	1,599	5,740	16,340	16,653	29,426,000	2,570,000	31.77
1982	8,649	1,550	10,199	3,323	1,625	4,948	15,676	16,111	27,858,000	1,382,000	28.52
1983	8,688	1,559	10,247	3,096	1,721	4,817	15,801	15,970	27,735,000	2,897,000	26.19
1984	8,879	1,630	10,509	3,229	2,011	5,240	16,820	16,448	28,446,000	3,748,000	25.88
1985	8,971	1,609	10,580	3,083	1,866	4,949	16,278	16,507	NA	NA	24.08

Sources: Energy Information Administration and American Petroleum Institute

Notes: Excludes imports to Strategic Petroleum Reserve.
Total supply includes processing gain, unaccounted crude and other hydrocarbons.
Reserves estimated as of December 31st each year.

Statistical Summary —continued

	NATURAL GAS		GAS RESERVES		NATURAL GAS PRICE	DRILLING DATA				TOTAL FOOTAGE DRILLED
	Marketed Production	Gas Imports	Proved Reserves	New Reserves		Oil Wells	Gas Wells	Dry Holes	Total Wells	
	(MMcf)				($/Mcf)	(number of wells)				(mill. ft.)
1950	6,282,060	0	184,584,745	12,038,296	.07	24,430	2,843	14,757	43,279	159.3
1951	7,457,359	0	192,758,910	16,097,838	.07	23,453	3,030	16,653	44,516	172.3
1952	8,013,457	7,807	198,631,566	14,465,372	.08	23,466	3,255	17,618	45,821	187.2
1953	8,396,916	9,225	210,298,763	20,855,462	.09	25,762	3,806	18,449	49,279	198.8
1954	8,742,546	6,847	210,560,931	9,637,482	.10	29,773	3,974	19,168	53,927	219.0
1955	9,405,351	10,888	222,482,544	21,984,780	.10	31,567	3,608	20,742	56,677	226.3
1956	10,081,923	10,380	236,483,215	24,849,356	.11	30,737	4,543	21,797	58,126	233.9
1957	10,680,258	37,941	245,230,137	20,186,812	.11	28,012	4,620	20,976	53,838	223.1
1958	11,030,248	135,797	252,761,792	18,954,306	.12	24,578	4,803	19,043	50,039	198.2
1959	12,046,115	133,990	261,170,431	20,781,702	.13	25,800	5,029	19,265	51,764	209.2
1960	12,771,038	155,646	262,326,326	14,175,251	.14	21,186	5,258	17,574	46,751	190.7
1961	13,254,025	218,860	266,273,642	17,325,965	.15	21,101	5,664	17,106	46,962	192.1
1962	13,876,622	401,534	272,278,858	19,643,189	.16	21,249	5,848	16,682	46,179	198.6
1963	14,746,663	406,204	276,151,233	18,418,400	.16	20,288	4,751	16,347	43,653	184.4
1964	15,546,592	443,326	281,251,454	20,447,249	.15	20,620	4,855	17,488	45,236	189.9
1965	16,039,753	456,394	286,468,923	21,469,762	.16	18,761	4,724	16,025	41,423	181.3
1966	17,206,628	479,780	289,332,805	20,354,955	.16	16,447	4,167	15,770	38,536	165.5
1967	18,171,325	564,226	292,907,703	21,955,736	.16	15,329	3,659	13,246	33,818	144.7
1968	19,322,400	651,885	287,349,852	13,815,576	.16	14,331	3,456	12,812	32,914	149.3
1969	20,698,240	726,951	275,108,835	8,482,173	.17	14,368	4,083	13,736	34,053	161.0
1970	21,920,642	820,780	290,746,408	37,598,477	.17	13,043	4,031	11,099	29,542	142.0
1971	22,493,012	934,548	278,805,618	10,135,722	.18	11,903	3,983	10,382	27,682	130.7
1972	22,531,698	1,019,496	266,084,846	9,791,126	.19	11,437	5,484	11,013	29,420	142.5
1973	22,647,549	1,032,901	249,950,207	6,470,767	.22	10,251	6,975	10,466	28,662	141.9
1974	21,600,522	959,284	237,132,497	8,500,760	.30	13,644	7,168	12,205	34,415	156.7
1975	20,108,661	953,008	228,200,176	10,786,249	.45	16,979	8,169	13,736	40,804	184.9
1976	19,952,438	963,768	216,026,047	7,367,918	.58	17,697	9,438	13,805	42,614	190.9
1977	20,025,463	1,011,001	208,877,878	12,298,854	.79	18,700	12,119	15,046	47,308	219.6
1978	19,974,033	965,545	200,301,707	10,734,877	.91	19,065	14,405	16,591	51,671	242.5
1979	20,471,260	1,253,383	194,916,624	14,525,270	1.18	20,689	15,166	16,035	53,362	247.4
1980	20,179,724	984,767	199,021,000	16,723,000	1.59	32,120	17,132	20,234	71,362	316.4
1981	19,955,823	903,949	201,730,000	21,446,000	1.98	42,520	19,742	26,972	91,600	412.3
1982	18,519,675	933,336	201,512,000	17,288,000	2.46	38,388	18,584	25,545	84,729	377.6
1983	16,822,144	919,752	200,247,000	14,523,000	2.59	35,990	14,013	23,045	75,032	315.0
1984	18,229,638	843,060	197,463,000	14,409,000	2.66	43,017	14,456	24,559	84,155	366.5
1985	17,217,817	950,000	N/A	N/A	2.48	33,801	11,747	19,792	66,835	304.7

Sources: Drilling data from American Petroleum Institute and American Association of Petroleum Geologists, based on new well completion system.
Reserves from American Gas Association and Energy Information Administration.
All other data from Energy Information Administration.

Notes: Drilling data include service wells, stratigraphic and core tests.
Reserve figures as of December 31st each year.

Looking for Natural Gas Information?

The Energy Information Administration has Natural Gas Data and Projections on:

- Production
- Value
- Consumption
- Stocks

Energy Information Administration
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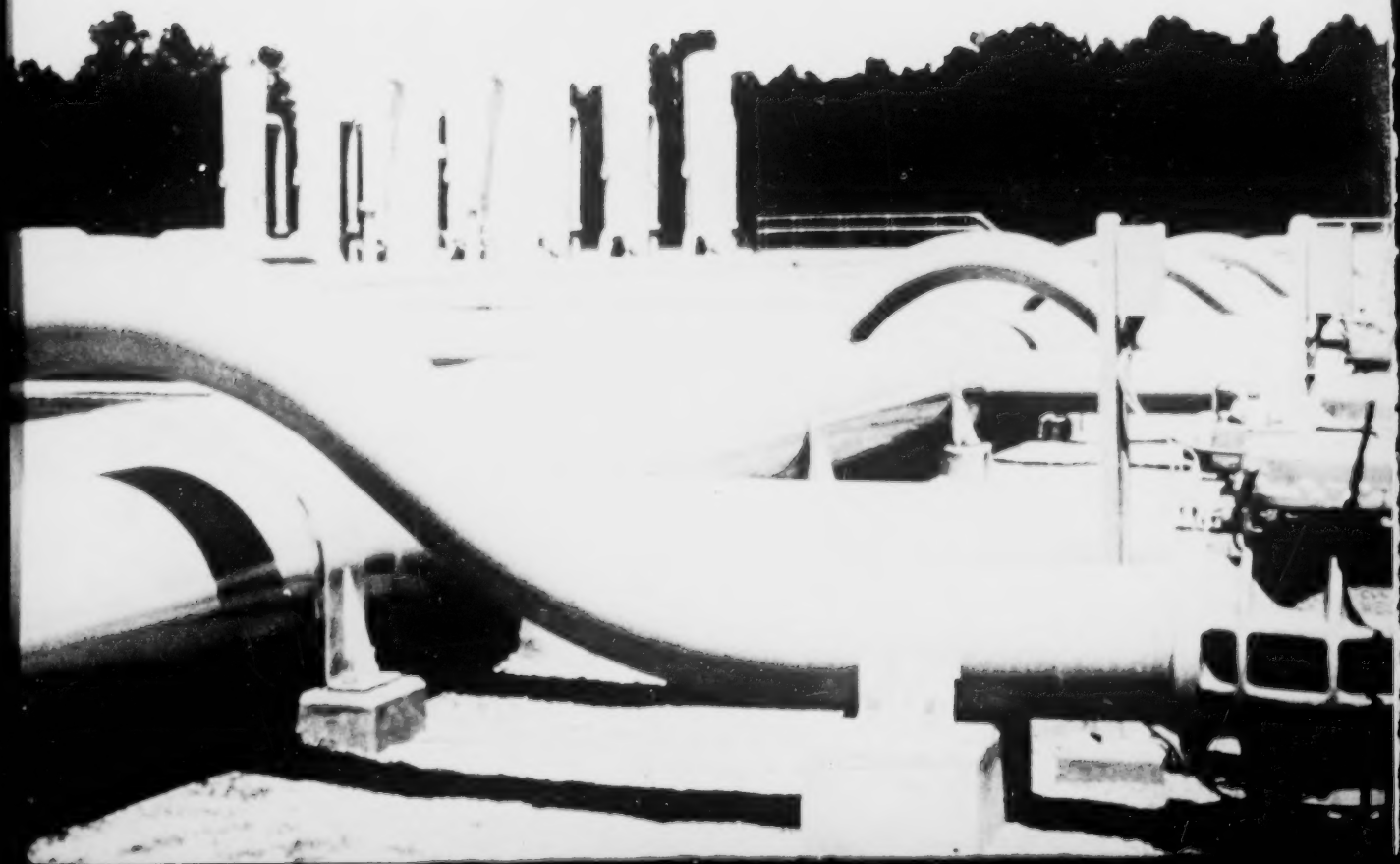

Retail Gasoline Prices

(¢/gal.)	Excluding Taxes	Taxes	Pump Price
1970	23.08	11.58	34.66
1971	23.88	10.94	34.82
1972	24.31	11.13	35.44
1973	26.93	11.20	38.13
1974	40.40	11.30	51.70
1975	45.67	11.31	56.98
1976	47.48	11.45	58.93
1977	50.82	11.52	62.34
1978	53.06	11.57	64.63
1979	73.38	11.71	85.09
1980	107.07	11.83	118.90
1981	119.91	13.01	132.92
1982	111.29	14.23	125.52
1983	102.69	19.19	121.88
1984	99.57	21.14	120.71
1985	93.91	21.86	115.77

Source: *Oil and Gas Journal*
Note: Motor gasoline prices represent leaded regular prior to 1985, and unleaded regular thereafter.

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Employment Summary

(thous.)	Oil & Gas Extraction	Total Refining	Total Transportation	Wholesale Products	Retail Stations	Total Industry
1965	287.1	158.0	173.1	219.1	521.9	1,359.2
1966	281.8	158.4	172.1	220.4	538.4	1,371.1
1967	275.8	158.4	174.6	221.9	565.9	1,396.6
1968	275.6	160.7	176.9	223.2	585.8	1,422.2
1969	279.9	155.5	177.4	223.8	606.4	1,443.0
1970	270.1	164.7	178.8	224.5	613.3	1,451.4
1971	264.2	164.0	175.8	225.0	619.0	1,448.0
1972	267.9	162.8	177.4	225.2	648.9	1,482.2
1973	273.9	160.3	179.5	220.8	651.4	1,485.9
1974	300.2	164.6	180.5	216.8	590.4	1,452.5
1975	328.8	164.0	179.4	227.5	622.2	1,521.9
1976	345.7	167.7	177.0	232.0	625.8	1,548.2
1977	381.4	170.7	177.3	229.7	628.7	1,587.8
1978	429.3	175.4	183.1	229.4	628.0	1,645.2
1979	474.2	177.3	187.2	225.4	576.9	1,641.0
1980	559.7	167.0	189.3	223.9	560.8	1,700.7
1981	692.1	185.1	195.8	231.5	562.2	1,866.7
1982	708.3	175.8	198.2	222.6	559.0	1,863.9
1983	597.8	169.2	193.6	210.9	556.2	1,727.7
1984	612.7	162.0	191.5	206.8	581.0	1,754.0
1985	585.2	151.1	192.7	205.3	592.8	1,776.5

Source: Bureau of Labor Statistics

Glossary

Abandonments — The number of producing wells that have been abandoned during a given time period.

Acreage Under Lease — The number of land acres leased by the landowner for searching out petroleum.

Artificial Lifting — Any method used to stimulate the production of oil and/or gas in excess of the flow resulting under natural reservoir pressures, e.g. pumping, secondary or tertiary recovery.

Associated Gas — Natural gas that occurs with crude oil in the reservoir either as free gas or in solution, also known as gas-cap gas.

Barrel — The standard volumetric measure for petroleum, equivalent to 42 U.S. gallons.

Casing — Heavy steel pipe used in oil wells to seal off fluids from the bore hole and to prevent the walls from caving in.

Chase Bank Group — A group of the largest U.S. petroleum companies from which Chase Manhattan Bank gathers annual financial and operating data. All other domestic petroleum companies in the industry are aggregated to represent the independent sector.

Christmastree — An assembly of flanges and valves mounted on the casing at the surface through which a well is produced, used for testing the well and shutting it in if necessary.

Condensate — A mixture of liquid hydrocarbons at atmospheric conditions which occur in a gaseous state underground, sometimes known as distillate or natural gasoline.

Crew Months — The standard time measure of the seismic geophysical search for petroleum.

Crude Oil — Hydrocarbons in liquid unprocessed form that vary significantly in properties such as API gravity, viscosity and sulfur content.

Cubic Foot — The standard measure for natural gas; the amount required to fill a volume of one cubic foot under given atmospheric conditions.

Development Well — Either an oil, gas or dry hole drilled within an area known to be productive.

Distillate Fuel Oil — One of the petroleum fractions produced by conventional distillate, includes fuel oil and diesel fuel.

Dry Hole — A completed well which is not productive of oil and/or gas in commercial quantities.

Dry Natural Gas — Natural gas that does not contain dissolved liquid hydrocarbons.

Exploratory Well — Either an oil, gas or dry hole drilled to discover a petroleum formation or its limits.

Field — An area that encompasses a group of oil and/or gas wells, underlaid by one or more reservoirs.

Gas Well — An exploratory or development well completed for the production of natural gas.

Liquefied Petroleum Gas (LPG) — Butane, propane and other light products separated from natural gasoline or crude oil by fractionation or other processes. At atmospheric pressure, it reverts to the gaseous state.

Middle Distillates — A general classification of petroleum products that includes distillate fuel oil and kerosene.

Natural Gas — Hydrocarbons in gaseous form or mixed with crude oil.

Natural Gas Liquids (NGL) — Hydrocarbons found with natural gas that are recoverable by condensation or absorption, such as LPG or natural gasoline.

Nonassociated Gas — Free natural gas that does not occur in contact or dissolved with crude oil in the reservoir.

Oil Well — An exploratory or development well completed for the production of crude oil.

Petroleum — Includes in its broadest sense the entire spectrum of hydrocarbons — gaseous, liquid and solid.

Pipeline — A line of tubes with pumping machinery that transports oil or gas from the wellhead to the storage tank or petroleum refinery.

Product — Any commodity made from crude oil or natural gas through the refinery process.

Proved Reserves — The estimated quantity of crude oil, natural gas or NGL that is shown with reasonable certainty to be recoverable from known fields under existing economic and operating conditions.

Refinery — A plant for separating crude oils and converting the major components into finished petroleum products.

Reservoir — A permeable sedimentary rock formation which is porous enough to allow oil, gas and water to move freely. Hydrocarbons are found in the sealed portions known as traps.

Residual Fuel Oil — The heavy, high-viscosity leftover from the refining process, used mainly for industrial purposes.

Rotary Drilling Rig — A derrick equipped with modern rotary equipment capable of drilling a bore hole with a bit attached to a rotating column of steel pipe, in contrast to a cable tool rig which drills on the percussion principle.

Seismic Exploration Activity — The search for geological structures which are potential petroleum-bearing formations. A group of geophysicists explode charges in shot holes and interpret on geophones the data from seismic shocks.

Severance Tax — A tax levied by some states on each barrel of oil or each thousand cubic feet of gas produced.

Strategic Petroleum Reserve — Crude oil inventories held in government underground storage for use during periods of supply interruptions.

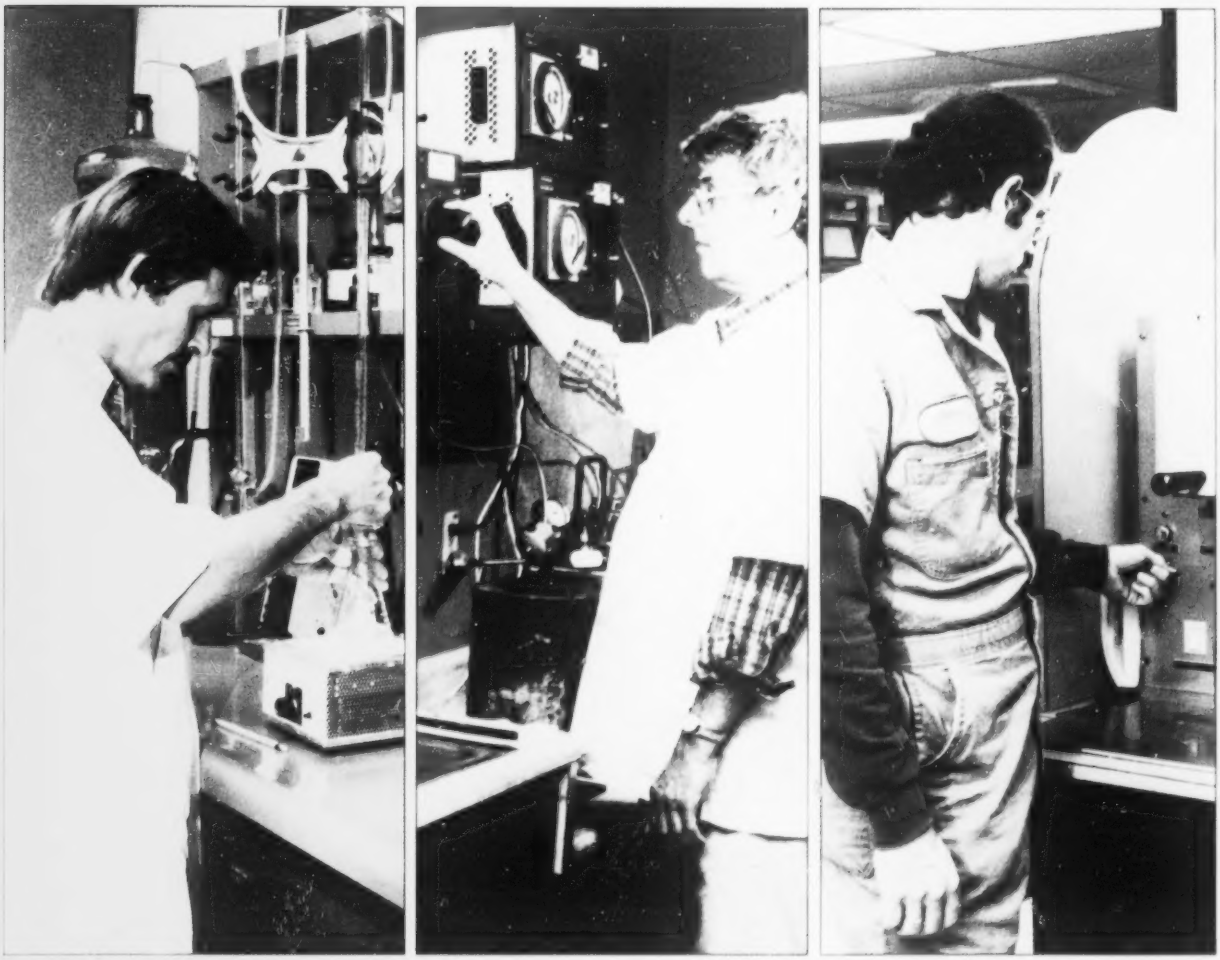
Stratigraphic Test — A hole drilled to gather information about a stratigraphic formation such as the general permeability and porosity of the rocks; includes core tests.

Stripper Well — A producing well which pumps or "strips" less than 10 barrels of oil or 60 Mcf of natural gas per day.

Stripper Well Reserves — The estimated amount of additional crude oil or natural gas which can be recovered by (1) primary means or (2) secondary recovery methods.

Well — A hole drilled to find or produce hydrocarbons, or to provide services related to their production.

Wildcat Well — A type of exploratory well drilled in an unproven area where there has been no previous production.



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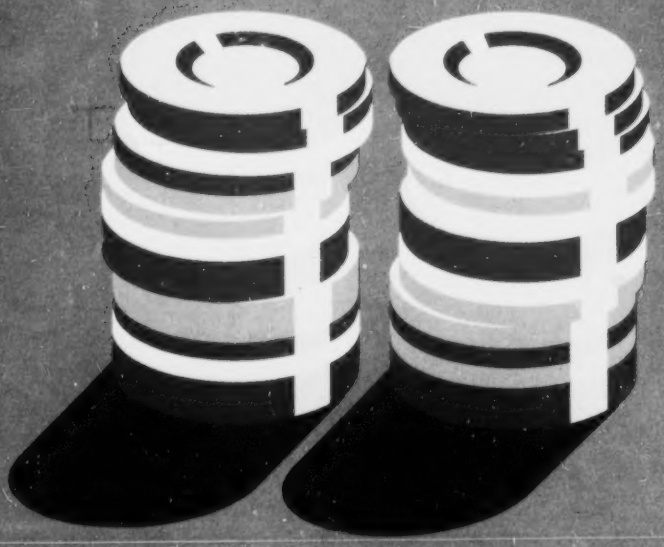

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